Drinking Water Surveillance Program

PETERBOROUGH WATER SUPPLY SYSTEM

Annual Report 1989

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PETERBOROUGH
WATER SUPPLY SYSTEM

DRINKING WATER SURVEILLANCE PROGRAM

ANNUAL REPORT 1989

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EXECUTIVE SUMMARY

DRINKING WATER SURVEILLANCE PROGRAM

PETERBOROUGH WATER SUPPLY SYSTEM
1989 ANNUAL REPORT

The Drinking Water Surveillance Program (DWSP) for Ontario is a monitoring program providing immediate, reliable, current information on drinking water quality. The DWSP officially began in April 1986 and is designed to eventually include all municipal supplies in Ontario. In 1989, 65 plants were being monitored.

The Peterborough Water Treatment Plant is a conventional treatment plant which treats water from the Otonabee River. The treatment process consists of coagulation, flocculation, sedimentation, filtration, disinfection and fluoridation. This plant has a design capacity of 104 x 1000 m^3/day and serves a population of 61,500 people.

Water samples from the raw, treated and two distribution sites were taken on a monthly basis and analyzed for approximately 180 parameters. Parameters were divided into the following groups Bacteriological, Inorganic and Physical(Laboratory Chemistry, Field Chemistry and Metals) and Organics (Chloroaromatics, Chlorophenols, Pesticide and PCB, Phenolics, Polynuclear Aromatic Hydrocarbons, Specific Pesticides and Volatiles). Specific Pesticides and Chlorophenols were analyzed for in June and November only.

A summary of results is shown in Table A.

Inorganic and Physical parameters (Laboratory Chemistry, Field Chemistry and Metals) were below any applicable health related ODWOs.

Of approximately 110 Organic parameters tested for on a monthly basis, none exceeded health related guidelines.

During 1989 the DWSP sampling results indicated that the Peterborough Water Treatment Plant produced good quality water at the plant and this quality was maintained in the distribution system.

TABLE A

DRINKING WATER SURVEILLANCE PROGRAM PETERBOROUGH WSS

SUMMARY TABLE BY SCAN

	SCAN	RAW TESTS	RAW POSITIVE	RAW %POSITIVE	TREATED TESTS	TREATED POSITIVE	TREATED %POSITIVE	SITE 1 TESTS	SITE 1 POSITIVE	SITE 1 %POSITIVE	SITE 2 TESTS	SITE 2 POSITIVE	SITE 2 %POSITIVE
	BACTERIOLOGICAL	30	24	80	30	2	6	33	1	3	36	9	25
	CHEMISTRY (FLD)	36	36	100	72	72	100	131	131	100	143	141	98
	CHEMISTRY (LAB)	251	209	83	242	198	81	391	342	87	426	378	88
	METALS	288	127	44	287	120	41	517	251	48	564	299	53
	CHLOROAROMATICS	167	0	0	153	0	0	154	0	0	167	0	0
	CHLOROPHENOLS	12	0	0	6	0	0	.	.	.	.	.	.
	PAH	194	0	0	194	0	0	.	.	.	.	.	.
	PESTICIDES & PCB	408	0	0	387	0	0	322	0	0	343	0	0
	PHENOLICS	12	11	91	12	11	91	.	.	.	.	.	.
	SPECIFIC PESTICIDES	64	0	0	57	0	0	11	0	0	12	0	0
	VOLATILES	348	0	0	348	37	10	290	30	10	348	36	10
TOTAL		1810	407		1788	440		1849	755		2039	863	

THE ODWO FOR CADMIUM (5.0 UG/L) WAS EXCEEDED IN ONE TREATED WATER SAMPLE NO OTHER HEALTH RELATED GUIDELINE WAS EXCEEDED.

A POSITIVE VALUE DENOTES THAT THE RESULT IS GREATER THAN THE STATISTICAL LIMIT OF DETECTION AND IS QUANTIFIABLE
A '.' INDICATES THAT NO SAMPLE WAS TAKEN

DRINKING WATER SURVEILLANCE PROGRAM

PETERBOROUGH WATER SUPPLY SYSTEM
1989 ANNUAL REPORT

INTRODUCTION

The Drinking Water Surveillance Program (DWSP) for Ontario is a monitoring program providing immediate, reliable, current information on drinking water quality. The DWSP officially began in April 1986 and is designed to eventually include all municipal supplies in Ontario. In 1989, 65 plants were being monitored.

The DWSP was initiated at the Peterborough Water Treatment Plant in January 1987. Annual reports were published for 1987 and 1988 (ISSN 0840-514x). This report contains information and results for 1989.

In order to accommodate the increasing number of plants on the DWSP and to facilitate the timely completion of the 1989 annual reports, plants with two or more years of published data will receive an abbreviated annual report. This report maintains the same general format as in previous years but does not include a comprehensive discussion of results. For more detail on the parameters analyzed and discussion of results, consult the 1987 and 1988 reports.

PLANT DESCRIPTION

The Peterborough Water Treatment Plant is a conventional treatment plant which treats water from the Otonabee River. The process consists of coagulation, flocculation, sedimentation, filtration, disinfection and fluoridation. Sulphur Dioxide is used as a dechlorinator when necessary. This plant has a design capacity of 104 x 1000 m^3/day and flows on day of sampling ranging from 43.1 x 1000 m^3/day to 77.2 x 1000 m^3/day. It serves a population of 61,500.

The plant location is shown in Figure 1. Plant Process details, in a block schematic, are shown in Figure 2. General plant information is presented in Table 2.

SAMPLING AND ANALYSIS

Plant operating personnel perform analyses on parameters for process control (Table 1).

Water at the Peterborough Water Treatment Plant was sampled for approximately 180 parameters on a monthly basis in 1989. The Specific Pesticides and Chlorophenols scans were sampled in June and November only. Polyaromatic Hydrocarbons and Phenolics were only analyzed in the raw and treated water at the plant.
As of August the triazine pesticides were only analyzed in the raw

FIGURE 1

DRINKING WATER SURVEILLANCE PROGRAM

SITE LOCATION MAP

PETERBOROUGH WATER TREATMENT PLANT

FIGURE 2

PETERBOROUGH WATER TREATMENT PLANT

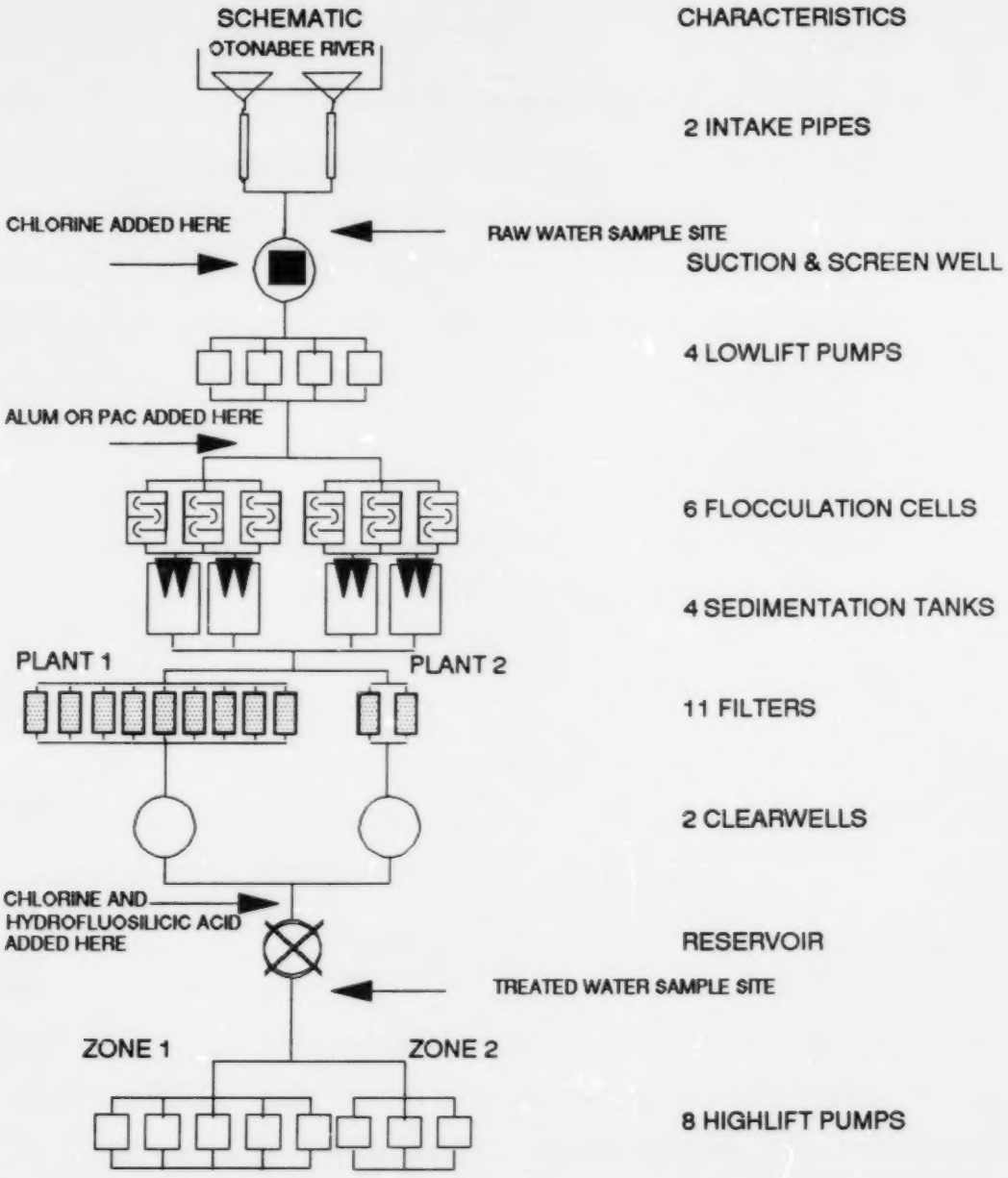

TABLE 1

DRINKING WATER SURVEILLANCE PROGRAM ANNUAL REPORT

IN-PLANT MONITORING PETERBOROUGH WATER SUPPLY SYSTEM 1989

PARAMETER	LOCATION	FREQUENCY
Algae	Raw water	weekly
Alkalinity	Raw water	biweekly
	Treated water	as required
Aluminum	Raw water	occasionally
	Treated water	occasionally
Chlorine residual - free	Settled water	continuous
- total	Treated water	continuous
Colour	Raw water	biweekly
	Settled water	biweekly
	Treated water	biweekly
Dissolved oxygen	Raw water	biweekly
	Treated water	biweekly
Fluoride	Treated water	continuous
Hardness	Raw water	biweekly
	Treated water	biweekly
Odour	Raw water	twice/week
	Settled water	twice/week
	Treated water	twice/week
	Distributed water	twice/week
pH	Raw water	daily
Temperature	Raw water	continuous
Turbidity	Raw water	daily
	Settled water	daily
		continuous
	Treated water	daily
		continuous

TABLE 2

DRINKING WATER SURVEILLANCE PROGRAM ANNUAL REPORT

GENERAL INFORMATION

PETERBOROUGH WATER SUPPLY SYSTEM

LOCATION:	1867 ASHBURNHAM DRIVE PETERBOROUGH, ONTARIO K91 1P8 (705-748-9300)
SOURCE:	RAW WATER SOURCE - OTONABEE RIVER
RATED CAPACITY:	104 (1000 M^3/DAY)
OPERATION:	MUNICIPALITY
PLANT SUPERINTENDENT:	W. MANLEY
MINISTRY REGION:	CENTRAL
DISTRICT OFFICER:	J.L. BOURQUE

MUNICIPALITY SERVED	POPULATION
PETERBOROUGH	60,800
WOODLAND ACRES	500

and treated water. Laboratory analysis was conducted at the Ministry of the Environment facilities in Rexdale, Ontario.

RESULTS

Field Chemistry measurements were recorded on the day of sampling and were entered on the DWSP database as submitted by plant personnel.

Table 3 contains information on the sample day retention time, flow rate and treatment chemicals used and their associated dosages.

Table 4 is a summary break-down of the number of water samples analyzed by parameter and by water type. The number of times that a positive or trace result was detected is also reported.

Positive denotes that the result is greater than the statistical limit of detection established by the Ministry of the Environment (MOE) laboratory staff and is quantifiable. Trace (<T) denotes that the level measured is greater than the lowest value detectable by the method but lies so close to the detection limit that it cannot be confidently quantified.

Table 5 presents the results for parameters detected on at least one occasion.

Table 6 is a list of all parameters analyzed in the DWSP.

Associated guidelines and detection limits are also supplied on both tables. Parameters are listed alphabetically within each scan.

DISCUSSION

General

Water quality is judged by comparison with the Ontario Drinking Water Objectives (ODWOs) as defined in the 1984 publication (ISBN 0-7743-8985-0). The Province of Ontario has health related and aesthetic objectives for 49 parameters, these are currently under review. When an ODWO is not available guidelines/limits from other agencies are consulted. The Parameters Listing System (PALIS) recently published (ISBN 0-7729-4461-X) by the MOE catalogues and keeps current over 1750 guidelines for 650 parameters from agencies throughout the world.

Many of the compounds detected are naturally occurring or are treatment by-products.

IN THIS REPORT, DISCUSSION IS LIMITED TO THE TREATED AND DISTRIBUTED WATER AND ADDRESSES ONLY THOSE PARAMETERS WITH CONCENTRATIONS ABOVE GUIDELINE VALUES AND ORGANICS WITH DETECTED POSITIVE RESULTS.

Results indicate that the only health related guideline to be exceeded was for cadmium as discussed below.

Bacteriology

Standard Plate Count

The ODWO for Standard Plate Count of 500 counts/mL (indicating some deterioration) was exceeded, in the Site 2 water in June, July, August and September.

Inorganic and Physical Parameters

Ammonium

The Total Ammonium levels are high in the standing water samples from Site 2. While the European Economic Community has an aesthetic guideline of .05 mg/L, the Maximum Admissible Concentration is .50 mg/L and is set as a result of the concern for potential sewage pollution and its detection.

Colour

The aesthetic ODWO of 5.00 True Colour Units (TCU) was exceeded in sixteen samples of the treated, Site 1 and Site 2 waters.

Aluminum

The plant operational guideline of 100 µg/L as Al in the water leaving the plant was exceeded twelve times in the treated water.

Cadmium

The ODWO of 5.0 µg/L was exceeded in the February treated water sample. The District Officer was notified. High levels of cadmium were not detected in the distribution system water samples taken on the same block of water. Since all other cadmium concentrations in the treated and distributed water were well below 1 µg/L, the February result is considered to be an anomaly.

Organic Parameters

Trihalomethanes

Trihalomethanes (THMs) are acknowledged to be produced during the water treatment process and will always occur in chlorinated waters. THMs are comprised of Chloroform, Chlorodibromomethane and Dichlorobromomethane. Bromoform occurs occasionally. Results are reported for the individual compounds as well as for total THMs. All Total THM occurrences, ranging from 83.3 to 217 µg/L, were well below the ODWO of 350 µg/L.

CONCLUSIONS

The Peterborough Water Supply System for the sample year of 1989 produced good quality water at the plant and this was maintained in the distribution system.

No health related guidelines, for organic or inorganic parameters, were exceeded during 1989.

TABLE 3

DRINKING WATER SURVEILLANCE PROGRAM PETERBOROUGH WSS SAMPLE DAY CONDITIONS FOR 1989

SAMPLE DAY CONDITIONS			TREATMENT CHEMICAL DOSAGES (MG/L)					
			PRE-CHLORINATION	COAGULATION		POST-CHLORINATION	FLUORIDATION	DECHLORINATION
			CHLORINE	ALUM LIQUID	POLYALUMINUM CHLORIDE	CHLORINE	HYDROFLUOSILICIC ACID	SULPHUR DIOXIDE
DATE	DELAY TIME(HRS)	FLOW (1000M3)						
JAN 10	5.7	50.0	2.50	.	1.20	.10	.87	.
FEB 14	5.7	50.0	3.00	.	2.30	.16	.84	.
MAR 14	6.6	43.1	3.50	.	2.00	.05	.90	.
APR 11	6.2	45.4	4.00	.	1.50	.10	.82	.
MAY 09	5.4	52.2	4.00	.	7.00	.05	.85	.
JUN 13	5.7	50.0	5.00	16.50	.	.	.80	.20
JUL 11	4.2	68.1	5.50	26.50	.	.	.81	.26
AUG 15	3.7	77.2	5.50	26.00	.	.	.80	.40
SEP 12	5.7	50.0	5.50	22.00	.	.	.80	.50
OCT 11	6.2	45.4	4.50	22.00	.	.	.90	.30
NOV 15	5.9	47.7	4.00	26.00	.	.	.90	.40
DEC 13	5.8	49.0	2.50	35.00	.	.40	.80	.

* THE DELAY TIME BETWEEN THE RAW AND TREATED WATER SAMPLING, SHOULD ESTIMATE THE RETENTION TIME

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM PETERBOROUGH

SUMMARY TABLE OF RESULTS (1989)

SCAN	PARAMETER	RAW			TREATED			SITE 1			SITE 2		
		TOTAL	POSITIVE	TRACE	TOTAL	POSITIVE	TRACE	TOTAL	POSITIVE	TRACE	TOTAL	POSITIVE	TRACE
BACTERIOLOGICAL	FECAL COLIFORM MF	10	8	0	.	.	.	.	.	.	.	.	.
	STANDRD PLATE CNT MF	.	.	.	10	1	0	11	0	0	12	4	0
	TOTAL COLIFORM MF	10	6	0	10	0	0	11	0	0	12	0	0
	T COLIFORM BCKGRD MF	10	10	0	10	1	0	11	1	0	12	5	0
*TOTAL SCAN BACTERIOLOGICAL		30	24	0	30	2	0	33	1	0	36	9	0
*TOTAL GROUP BACTERIOLOGICAL		30	24	0	30	2	0	33	1	0	36	9	0
CHEMISTRY (FLD)	FLD CHLORINE (COMB)	.	.	.	12	12	0	22	22	0	23	21	0
	FLD CHLORINE FREE	.	.	.	12	12	0	22	22	0	24	24	0
	FLD CHLORINE (TOTAL)	.	.	.	12	12	0	22	22	0	24	24	0
	FLD PH	12	12	0	12	12	0	22	22	0	24	24	0
	FLD TEMPERATURE	12	12	0	12	12	0	22	22	0	24	24	0
	FLD TURBIDITY	12	12	0	12	12	0	21	21	0	24	24	0
*TOTAL SCAN CHEMISTRY (FLD)		36	36	0	72	72	0	131	131	0	143	141	0
CHEMISTRY (LAB)	ALKALINITY	12	12	0	12	12	0	22	22	0	24	24	0
	CALCIUM	12	12	0	12	12	0	22	22	0	24	24	0
	CYANIDE	12	0	0	12	0	0	11	0	0	12	0	0
	CHLORIDE	12	12	0	12	12	0	22	22	0	24	24	0
	COLOUR	12	12	0	12	11	1	22	22	0	24	24	0
	CONDUCTIVITY	12	12	0	12	12	0	22	22	0	24	24	0

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM PETERBOROUGH

SUMMARY TABLE OF RESULTS (1989)

SCAN	PARAMETER	SITE RAW TOTAL	RAW POSITIVE	RAW TRACE	TREATED TOTAL	TREATED POSITIVE	TREATED TRACE	SITE 1 TOTAL	SITE 1 POSITIVE	SITE 1 TRACE	SITE 2 TOTAL	SITE 2 POSITIVE	SITE 2 TRACE
CHEMISTRY (LAB)	FLUORIDE	12	12	0	12	12	0	22	22	0	24	24	0
	HARDNESS	12	12	0	12	12	0	22	22	0	24	24	0
	IONCAL	12	12	0	12	12	0	22	22	0	24	24	0
	LANGELIERS INDEX	11	11	0	2	2	0	6	6	0	6	6	0
	MAGNESIUM	12	12	0	12	12	0	22	22	0	24	24	0
	SODIUM	12	12	0	12	12	0	22	22	0	24	24	0
	AMMONIUM TOTAL	12	11	1	12	2	9	22	12	9	24	15	8
	NITRITE	12	4	8	12	1	7	22	3	17	24	3	20
	TOTAL NITRATES	12	7	4	12	7	3	22	14	5	24	18	3
	NITROGEN TOT KJELD	12	12	0	12	12	0	22	22	0	24	24	0
	PH	12	12	0	12	12	0	22	22	0	24	24	0
	PHOSPHORUS FIL REACT	12	0	3	12	10	1	.	.	.	.	.	.
	PHOSPHORUS TOTAL	12	8	4	12	9	3	.	.	.	.	.	.
	SULPHATE	12	12	0	12	12	0	22	22	0	24	24	0
	TURBIDITY	12	12	0	12	12	0	22	21	1	24	24	0
*TOTAL SCAN CHEMISTRY (LAB)		251	209	20	242	198	24	391	342	32	426	378	31
METALS	SILVER	12	0	1	12	0	3	22	0	3	24	0	11
	ALUMINUM	12	12	0	12	12	0	22	22	0	24	24	0
	ARSENIC	12	0	11	12	4	8	22	1	21	24	3	20
	BARIUM	12	12	0	12	12	0	22	22	0	24	24	0
	BORON	12	5	7	12	7	5	22	8	14	24	9	15
	BERYLLIUM	12	0	6	12	0	7	22	0	7	24	0	11

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM PETERBOROUGH

SUMMARY TABLE OF RESULTS (1989)

SCAN	PARAMETER	SITE RAW TOTAL	RAW POSITIVE	RAW TRACE	TREATED TOTAL	TREATED POSITIVE	TREATED TRACE	SITE 1 TOTAL	SITE 1 POSITIVE	SITE 1 TRACE	SITE 2 TOTAL	SITE 2 POSITIVE	SITE 2 TRACE
METALS	CADMIUM	12	0	2	12	1	1	22	0	8	24	0	12
	COBALT	12	0	12	12	0	12	22	0	21	24	1	23
	CHROMIUM	12	9	2	12	9	2	22	9	7	24	13	9
	COPPER	12	11	1	12	0	11	22	22	0	24	24	0
	IRON	12	1	11	12	0	8	22	0	21	24	20	3
	MERCURY	12	0	9	11	0	9	11	0	7	12	0	4
	MANGANESE	12	12	0	12	12	0	22	22	0	24	23	0
	MOLYBDENUM	12	4	8	12	5	7	22	8	14	24	11	13
	NICKEL	12	0	5	12	0	4	22	9	5	24	6	10
	LEAD	12	6	6	12	2	7	22	22	0	24	24	0
	ANTIMONY	12	11	1	12	11	1	22	20	2	24	23	1
	SELENIUM	12	0	6	12	0	5	22	0	10	24	0	11
	STRONTIUM	12	12	0	12	12	0	22	22	0	24	24	0
	TITANIUM	12	11	1	12	11	1	22	20	2	24	21	3
	THALLIUM	12	0	4	12	0	5	22	0	4	24	0	7
	URANIUM	12	8	4	12	6	5	22	11	8	24	12	9
	VANADIUM	12	2	10	12	7	5	22	12	10	24	14	10
	ZINC	12	11	1	12	9	3	22	21	1	24	23	1
*TOTAL SCAN METALS		288	127	108	287	120	109	517	251	165	564	299	173
*TOTAL GROUP INORGANIC & PHYSICAL		575	372	128	601	390	133	1039	724	197	1133	818	204
CHLOROAROMATICS	HEXACHLOROBUTADIENE	12	0	0	11	0	0	11	0	0	12	0	0
	123 TRICHLOROBENZENE	12	0	0	11	0	0	11	0	0	12	0	0

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM PETERBOROUGH

SUMMARY TABLE OF RESULTS (1989)

SCAN	PARAMETER	SITE RAW TOTAL	RAW POSITIVE	RAW TRACE	TREATED TOTAL	TREATED POSITIVE	TREATED TRACE	SITE 1 TOTAL	SITE 1 POSITIVE	SITE 1 TRACE	SITE 2 TOTAL	SITE 2 POSITIVE	SITE 2 TRACE
CHLOROAROMATICS	1234 T-CHLOROBENZENE	12	0	0	11	0	0	11	0	0	12	0	0
	1235 T-CHLOROBENZENE	12	0	0	11	0	0	11	0	0	12	0	0
	124 TRICHLOROBENZENE	12	0	0	11	0	0	11	0	0	12	0	0
	1245 T-CHLOROBENZENE	12	0	0	11	0	0	11	0	0	12	0	0
	135 TRICHLOROBENZENE	12	0	0	11	0	0	11	0	0	12	0	0
	HCB	12	0	0	11	0	0	11	0	0	12	0	0
	HEXACHLOROETHANE	11	0	0	10	0	1	11	0	0	11	0	0
	OCTACHLOROSTYRENE	12	0	0	11	0	0	11	0	0	12	0	0
	PENTACHLOROBENZENE	12	0	0	11	0	0	11	0	0	12	0	0
	236 TRICHLOROTOLUENE	12	0	0	11	0	0	11	0	0	12	0	0
	245 TRICHLOROTOLUENE	12	0	0	11	0	0	11	0	0	12	0	0
	26A TRICHLOROTOLUENE	12	0	0	11	0	0	11	0	0	12	0	0
*TOTAL SCAN CHLOROAROMATICS		167	0	0	153	0	1	154	0	0	167	0	0
CHLOROPHENOLS	234 TRICHLOROPHENOL	2	0	0	1	0	0	.	.	.	.	.	.
	2345 T-CHLOROPHENOL	2	0	0	1	0	0	.	.	.	.	.	.
	2356 T-CHLOROPHENOL	2	0	0	1	0	0	.	.	.	.	.	.
	245-TRICHLOROPHENOL	2	0	0	1	0	0	.	.	.	.	.	.
	246-TRICHLOROPHENOL	2	0	0	1	0	0	.	.	.	.	.	.
	PENTACHLOROPHENOL	2	0	0	1	0	0	.	.	.	.	.	.
*TOTAL SCAN CHLOROPHENOLS		12	0	0	6	0	0	0	0	0	0	0	0

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM PETERBOROUGH

SUMMARY TABLE OF RESULTS (1989)

SCAN	PARAMETER	SITE RAW TOTAL	RAW POSITIVE	RAW TRACE	TREATED TOTAL	TREATED POSITIVE	TREATED TRACE	SITE 1 TOTAL	SITE 1 POSITIVE	SITE 1 TRACE	SITE 2 TOTAL	SITE 2 POSITIVE	SITE 2 TRACE
PAH	PHENANTHRENE	12	0	0	12	0	0	.	.	.	.	.	.
	ANTHRACENE	11	0	0	11	0	0	.	.	.	.	.	.
	FLUORANTHENE	12	0	0	12	0	0	.	.	.	.	.	.
	PYRENE	12	0	0	12	0	0	.	.	.	.	.	.
	BENZO(A)ANTHRACENE	12	0	0	12	0	0	.	.	.	.	.	.
	CHRYSENE	12	0	0	12	0	0	.	.	.	.	.	.
	DIMETH. BENZ(A)ANTHR	8	0	0	8	0	0	.	.	.	.	.	.
	BENZO(E) PYRENE	12	0	0	12	0	0	.	.	.	.	.	.
	BENZO(B) FLUORANTHEN	12	0	0	12	0	0	.	.	.	.	.	.
	PERYLENE	12	0	0	12	0	0	.	.	.	.	.	.
	BENZO(K) FLUORANTHEN	12	0	0	12	0	0	.	.	.	.	.	.
	BENZO(A) PYRENE	7	0	0	7	0	0	.	.	.	.	.	.
	BENZO(G,H,I) PERYLEN	12	0	0	12	0	0	.	.	.	.	.	.
	DIBENZO(A,H) ANTHRAC	12	0	0	12	0	0	.	.	.	.	.	.
	INDENO(1,2,3-C,D) PY	12	0	0	12	0	0	.	.	.	.	.	.
	BENZO(B) CHRYSENE	12	0	0	12	0	0	.	.	.	.	.	.
	CORONENE	12	0	0	12	0	0	.	.	.	.	.	.
*TOTAL SCAN PAH		194	0	0	194	0	0	0	0	0	0	0	0
PESTICIDES & PCB	ALDRIN	12	0	0	11	0	0	11	0	0	12	0	0
	ALPHA BHC	12	0	3	11	0	3	11	0	3	12	0	3
	BETA BHC	12	0	1	11	0	0	11	0	0	12	0	0
	LINDANE	12	0	1	11	0	0	11	0	0	12	0	0

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM PETERBOROUGH

SUMMARY TABLE OF RESULTS (1989)

SCAN	PARAMETER	SITE RAW TOTAL	RAW POSITIVE	RAW TRACE	TREATED TOTAL	TREATED POSITIVE	TREATED TRACE	SITE 1 TOTAL	SITE 1 POSITIVE	SITE 1 TRACE	SITE 2 TOTAL	SITE 2 POSITIVE	SITE 2 TRACE
PESTICIDES & PCB	ALPHA CHLORDANE	12	0	0	11	0	0	11	0	0	12	0	0
	GAMMA CHLORDANE	12	0	0	11	0	0	11	0	0	12	0	0
	DIELDRIN	12	0	0	11	0	0	11	0	0	12	0	0
	METHOXYCHLOR	12	0	0	11	0	0	11	0	0	12	0	0
	ENDOSULFAN I	12	0	0	11	0	0	11	0	0	12	0	0
	ENDOSULFAN II	12	0	0	11	0	0	11	0	0	12	0	0
	ENDRIN	12	0	0	11	0	0	11	0	0	12	0	0
	ENDOSULFAN SULPHATE	12	0	0	11	0	0	11	0	0	12	0	0
	HEPTACHLOR EPOXIDE	12	0	0	11	0	0	11	0	0	12	0	0
	HEPTACHLOR	12	0	0	11	0	0	11	0	0	12	0	0
	MIREX	12	0	0	11	0	0	11	0	0	12	0	0
	OXYCHLORDANE	12	0	0	11	0	0	11	0	0	12	0	0
	OPDDT	12	0	0	11	0	0	11	0	0	12	0	0
	PCB	12	0	0	11	0	0	11	0	0	12	0	0
	DDD	12	0	0	11	0	0	11	0	0	12	0	0
	PPDDE	12	0	0	11	0	0	11	0	0	12	0	0
	PPDDT	12	0	0	11	0	0	11	0	0	12	0	0
	AMETRINE	12	0	0	12	0	0	7	0	0	7	0	0
	ATRAZINE	12	0	0	12	0	0	7	0	0	7	0	0
	ATRATONE	12	0	0	12	0	0	7	0	0	7	0	0
	CYANAZINE (BLADEX)	12	0	0	12	0	0	7	0	0	7	0	0
	D-ETHYL ATRAZINE	12	0	0	12	0	0	7	0	0	7	0	0
	D-ETHYL SIMAZINE	12	0	0	12	0	0	7	0	0	7	0	0
	PROMETONE	12	0	0	12	0	0	7	0	0	7	0	0
	PROPAZINE	12	0	0	12	0	0	7	0	0	7	0	0

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM PETERBOROUGH

SUMMARY TABLE OF RESULTS (1989)

SCAN	PARAMETER	SITE RAW TOTAL	RAW POSITIVE	RAW TRACE	TREATED TOTAL	TREATED POSITIVE	TREATED TRACE	SITE 1 TOTAL	SITE 1 POSITIVE	SITE 1 TRACE	SITE 2 TOTAL	SITE 2 POSITIVE	SITE 2 TRACE
PESTICIDES & PCB	PROMETRYNE	12	0	0	12	0	0	7	0	0	7	0	0
	METRIBUZIN (SENCOR)	12	0	0	12	0	0	7	0	0	7	0	0
	SIMAZINE	12	0	0	12	0	0	7	0	0	7	0	0
	ALACHLOR (LASSO)	12	0	0	12	0	0	7	0	0	7	0	0
	METOLACHLOR	12	0	0	12	0	0	7	0	0	7	0	0
*TOTAL SCAN PESTICIDES & PCB		408	0	5	387	0	3	322	0	3	343	0	3
PHENOLICS	PHENOLICS	12	11	1	12	11	1	.	.	.	.	.	.
*TOTAL SCAN PHENOLICS		12	11	1	12	11	1	0	0	0	0	0	0
SPECIFIC PESTICIDES	TOXAPHENE	12	0	0	11	0	0	11	0	0	12	0	0
	2,4,5-T	2	0	0	1	0	0	.	.	.	.	.	.
	2,4-D	2	0	0	1	0	0	.	.	.	.	.	.
	2,4-DB	2	0	0	1	0	0	.	.	.	.	.	.
	2,4 D PROPIONIC ACID	1	0	0	0	0	0	.	.	.	.	.	.
	DICAMBA	2	0	0	1	0	0	.	.	.	.	.	.
	PICHLORAM	0	0	0	0	0	0	.	.	.	.	.	.
	SILVEX	2	0	0	1	0	0	.	.	.	.	.	.
	DIAZINON	2	0	0	2	0	0	.	.	.	.	.	.
	DICHLOROVOS	2	0	0	2	0	0	.	.	.	.	.	.
	CHLORPYRIFOS	2	0	0	2	0	0	.	.	.	.	.	.

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM PETERBOROUGH

SUMMARY TABLE OF RESULTS (1989)

SCAN	PARAMETER	SITE RAW TOTAL	RAW POSITIVE	RAW TRACE	TREATED TOTAL	TREATED POSITIVE	TREATED TRACE	SITE 1 TOTAL	SITE 1 POSITIVE	SITE 1 TRACE	SITE 2 TOTAL	SITE 2 POSITIVE	SITE 2 TRACE
SPECIFIC PESTICIDES	ETHION	2	0	0	2	0	0	.	.	.	.	.	.
	AZINPHOS-METHYL	0	0	0	0	0	0	.	.	.	.	.	.
	MALATHION	2	0	0	2	0	0	.	.	.	.	.	.
	MEVINPHOS	2	0	0	2	0	0	.	.	.	.	.	.
	METHYL PARATHION	2	0	0	2	0	0	.	.	.	.	.	.
	METHYLTRITHION	2	0	0	2	0	0	.	.	.	.	.	.
	PARATHION	2	0	0	2	0	0	.	.	.	.	.	.
	PHORATE	2	0	0	2	0	0	.	.	.	.	.	.
	RELDAN	2	0	0	2	0	0	.	.	.	.	.	.
	RONNEL	2	0	0	2	0	0	.	.	.	.	.	.
	AMINOCARB	0	0	0	0	0	0	.	.	.	.	.	.
	BENOMYL	1	0	0	1	0	0	.	.	.	.	.	.
	BUX	0	0	0	0	0	0	.	.	.	.	.	.
	CARBOFURAN	2	0	0	2	0	0	.	.	.	.	.	.
	CICP	2	0	0	2	0	0	.	.	.	.	.	.
	DIALLATE	2	0	0	2	0	0	.	.	.	.	.	.
	EPTAM	2	0	0	2	0	0	.	.	.	.	.	.
	IPC	2	0	0	2	0	0	.	.	.	.	.	.
	PROPOXUR	2	0	0	2	0	0	.	.	.	.	.	.
	CARBARYL	2	0	0	2	0	0	.	.	.	.	.	.
	BUTYLATE	2	0	0	2	0	0	.	.	.	.	.	.
*TOTAL SCAN SPECIFIC PESTICIDES		64	0	0	57	0	0	11	0	0	12	0	0
VOLATILES	BENZENE	12	0	0	12	0	3	10	0	0	12	0	0

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM PETERBOROUGH

SUMMARY TABLE OF RESULTS (1989)

		SITE											
		RAW			TREATED			SITE 1			SITE 2		
SCAN	PARAMETER	TOTAL	POSITIVE	TRACE	TOTAL	POSITIVE	TRACE	TOTAL	POSITIVE	TRACE	TOTAL	POSITIVE	TRACE
VOLATILES	TOLUENE	12	0	1	12	0	5	10	0	0	12	0	1
	ETHYLBENZENE	12	0	3	12	0	4	10	0	0	12	0	1
	P-XYLENE	12	0	0	12	0	0	10	0	0	12	0	0
	M-XYLENE	12	0	0	12	0	0	10	0	0	12	0	0
	O-XYLENE	12	0	0	12	0	1	10	0	0	12	0	0
	STYRENE	12	0	4	12	0	6	10	0	4	12	0	10
	1,1 DICHLOROETHYLENE	12	0	0	12	0	0	10	0	0	12	0	0
	METHYLENE CHLORIDE	12	0	0	12	0	0	10	0	0	12	0	0
	T1,2DICHLOROETHYLENE	12	0	0	12	0	0	10	0	0	12	0	0
	1,1 DICHLOROETHANE	12	0	0	12	0	0	10	0	0	12	0	0
	CHLOROFORM	12	0	4	12	12	0	10	10	0	12	12	0
	111, TRICHLOROETHANE	12	0	1	12	0	0	10	0	0	12	0	0
	1,2 DICHLOROETHANE	12	0	0	12	0	0	10	0	0	12	0	0
	CARBON TETRACHLORIDE	12	0	0	12	0	0	10	0	0	12	0	0
	1,2 DICHLOROPROPANE	12	0	0	12	0	0	10	0	0	12	0	0
	TRICHLOROETHYLENE	12	0	0	12	0	0	10	0	0	12	0	0
	DICHLOROBROMOMETHANE	12	0	0	12	12	0	10	10	0	12	12	0
	112 TRICHLOROETHANE	12	0	0	12	0	0	10	0	0	12	0	0
	CHLORODIBROMOMETHANE	12	0	0	12	1	8	10	0	9	12	0	11
	T-CHLOROETHYLENE	12	0	0	12	0	2	10	0	1	12	0	1
	BROMOFORM	12	0	0	12	0	1	10	0	0	12	0	0
	1122 T-CHLOROETHANE	12	0	0	12	0	0	10	0	0	12	0	0
	CHLOROBENZENE	12	0	0	12	0	0	10	0	0	12	0	0
	1,4 DICHLOROBENZENE	12	0	0	12	0	0	10	0	1	12	0	0
	1,3 DICHLOROBENZENE	12	0	0	12	0	0	10	0	0	12	0	0

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM PETERBOROUGH

SUMMARY TABLE OF RESULTS (1989)

SCAN	PARAMETER	SITE RAW TOTAL	RAW POSITIVE	RAW TRACE	TREATED TOTAL	TREATED POSITIVE	TREATED TRACE	SITE 1 TOTAL	SITE 1 POSITIVE	SITE 1 TRACE	SITE 2 TOTAL	SITE 2 POSITIVE	SITE 2 TRACE
VOLATILES	1,2 DICHLOROBENZENE	12	0	0	12	0	1	10	0	0	12	0	0
	ETHLYENE DIBROMIDE	12	0	0	12	0	0	10	0	0	12	0	0
	TOTL TRIHALOMETHANES	12	0	1	12	12	0	10	10	0	12	12	0
*TOTAL SCAN VOLATILES		348	0	14	348	37	31	290	30	15	348	36	24
*TOTAL GROUP ORGANIC		1205	11	20	1157	48	36	777	30	18	870	36	27
TOTAL		1810	407	148	1788	440	169	1849	755	215	2039	863	231

KEY TO TABLE 5 and 6

A ONTARIO DRINKING WATER OBJECTIVES (ODWO)
1. Maximum Acceptable Concentration (MAC)
1+. MAC for Total Trihalomethanes
1*. MAC for Bacteriological Analyses
Poor water quality is indicated when :
- total coliform counts > 0 < 5
- P/A Bottle Test is present after 48 hours
- Aeromonas organisms are detected in more than 25% of samples in a single submission or in successive submissions from the same sampling site
- Pseudomonas Aeruginosa, Staphylococcus Aureus and members of the Fecal Streptococcus group should not be detected in any sample
- Standard Plate Count should not exceed 500 organisms per ml at 35 ^{0}C within 48 hours

2. Interim Maximum Acceptable Concentration (IMAC)
3. Maximum Desirable Concentration (MDC)
4. Aesthetic or Recommended Operational Guideline
- hardness levels between 80 and 100 mg/L as calcium carbonate are considered to provide an acceptable balance between corrosion and incrustation, water supplies with a hardness >200 mg/L are considered poor and those in excess of 500 mg/L are unacceptable.

B HEALTH & WELFARE CANADA (H&W)
1. Maximum Acceptable Concentration (MAC)
2. Proposed MAC
3. Interim MAC
4. Aesthetic Objective (AO) (for xylenes, a total)

C WORLD HEALTH ORGANIZATION (WHO)
1. Guideline Value (GV)
2. Tentative GV
3. Aesthetic GV

D US ENVIRONMENTAL PROTECTION AGENCY (EPA)
1. Maximum Contaminant Level (MCL)
2. Suggested No-Adverse Effect Level (SNAEL)
3. Lifetime Health Advisory
4. EPA Ambient Water Quality Criteria
5. Maximum Contaminant Level Goal (MCLG)

F EUROPEAN ECONOMIC COMMUNITY (EEC)
1. Health Related Guideline Level
2. Aesthetic Guideline Level
3. Maximum Admissable Concentration (MADC)

G CALIFORNIA STATE DEPARTMENT OF HEALTH-GUIDELINE VALUE

H USSR MAXIMUM PERMISSIBLE CONCENTRATION

I NEW YORK STATE AMBIENT WATER GUIDELINE

N/A NONE AVAILABLE

INTERPRETATION OF DATA

The interpretation of analytical results that are obtained from measurements near the limit of detection of the measurement process is subject to greater uncertainty than those at higher concentrations. The principle areas of concern relate to whether the substance has actually been detected, whether it has been properly identified, and whether it is an artifact of the measurement process. In other words, false positives can be caused by the instrumentation or the test procedures used, when in fact these compounds are not present in the sample.

There are several methods to treat data from such measurements:
1. Exclude the low-level data because of this uncertainty factor. However, studies of long-term environmental trends and modelling may be adversely affected by exclusion of such data.
2. Qualify these data so the user is aware of the greater uncertainty associated with their use.

For the Drinking Water Surveillance Program, measurements near the limit of detection of the measurement process are reported qualified by the code "<T". Results quantified by "W" indicate a zero measurement. These results are reported for purposes of modelling and long-term trend analysis and no significance should be attributed to a single determination of a substance below "T" (a single determination may well be a false positive). Repeat analysis or additional data are needed before it can be stated with certainty that the substance in question was truly present. On the other hand, it is less likely that repeated detection of a substance at or near the limit of detection at a specific location is solely due to an artifact in the measurement system, and more likely represents a true positive. However the average of such data is still only an estimate of the amount of substance present subject to the possible biases of the method used.

LABORATORY RESULTS, REMARK DESCRIPTIONS

.	No Sample Taken
BDL	Below Minimum Measurable Amount
<T	Greater Than Detection Limit But Not Confident (SEE INTERPRETATION OF RESULTS ABOVE)
>	Results Are Greater Than The Upper Limit
<=>	Approximate Result
!AW	No Data: Analysis Withdrawn
!CR	No Data: Could Not Confirm By Reanalysis
!CS	No Data: Contamination Suspected
!IL	No Data: Sample Incorrectly Labelled
!IP	No Data: Insufficient Preservative
!IS	No Data: Insufficient Sample

!LA	No Data: Laboratory Accident
!LD	No Data: Test Queued After Sample Discarded
!NA	No Data: No Authorization To Perform Reanalysis
!NP	No Data: No Procedure
!NR	No Data: Sample Not Received
!OP	No Data: Obscured Plate
!QU	No Data: Quality Control Unacceptable
!PE	No Data: Procedural Error - Sample Discarded
!PH	No Data: Sample pH Outside Valid Range
!RE	No Data: Received Empty
!RO	No Data: See Attached Report (no numeric results)
!SM	No Data: Sample Missing
!SS	No Data: Send Separate Sample Properly Preserved
!UI	No Data: Indeterminant Interference
!TX	No Data: Time Expired
A3C	Approximate, Total Count Exceeded 300 Colonies
APL	Additional Peak, Large, Not Priority Pollutant
APS	Additional Peak, Less Than, Not Priority Pollutant
CIC	Possible Contamination, Improper Cap
CRO	Calculated Result Only
PPS	Test Performed On Preserved Sample
RMP	P and M-Xylene Not Separated
RRV	Rerun Verification
RVU	Reported Value Unusual
SPS	Several Peaks, Small, Not Priority Pollutant
UCR	Unreliable: Could Not Confirm By Reanalysis
UCS	Unreliable: Contamination Suspected
UIN	Unreliable: Indeterminant Interference
XP	Positive After X Number of Hours
T# (T06)	Result Taken After # Hours

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM PETERBOROUGH WSS 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM			
	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
BACTERIOLOGICAL						
FECAL COLIFORM MF (CT/100ML)			**DET'N LIMIT = 0**		**GUIDELINE = 0 (A1)**	
JAN	3 T24	.	.	.	.	.
FEB	0 T24	.	.	.	.	.
MAR	1 R72	.	.	.	.	.
APR	0 T24	.	.	.	.	.
MAY	3	.	.	.	.	.
JUN	4	.	.	.	.	.
JUL	11 A3C	.	.	.	.	.
AUG	6	.	.	.	.	.
OCT	6	.	.	.	.	.
DEC	10	.	.	.	.	.
STANDRD PLATE CNT MF ( )			**DET'N LIMIT =**		**GUIDELINE =**	
JAN	.	4 <=>	.	3 <=>	.	5 <=>
FEB	.	0 <=>	.	1 <=>	.	1 <=>
MAR	.	0 <=>	.	1 <=>	.	0 <=>
APR	.	3 <=>	.	3 <=>	.	0 <=>
MAY	.	0 <=>	.	1 <=>	.	0 <=>
JUN	.	0 <=>	.	0 <=>	.	1540
JUL	.	0 <=>	.	3 <=>	.	4900 A3C
AUG	.	0 <=>	.	.	.	800
SEP	.	.	.	0 <=>	.	720
OCT	.	0 <=>	.	1 <=>	.	0 <=>
NOV	.	.	.	5 <=>	.	0 <=>
DEC	.	16	.	2 <=>	.	2 <=>
TOTAL COLIFORM MF (CT/100ML)			**DET'N LIMIT = 0**		**GUIDELINE = 5/100ML(A1)**	
JAN	76 A3C	0 T24	.	0 T24	.	0 T24
FEB	20 T24	0 T24	.	0 T24	.	0 T24
MAR	48 A3C	0 T48	.	0 T48	.	0 T48
APR	72 T24	0 T24	.	0 T24	.	0 T24
MAY	88 A3C	0	.	0	.	0
JUN	120 <=>	0	.	0	.	0
JUL	40 <=>	0	.	0	.	0
AUG	80 <=>	0	.	.	.	0
SEP	.	.	.	0	.	0
OCT	260 A3C	0	.	0	.	0
NOV	.	.	.	0	.	0
DEC	50 <=>	0	.	0	.	0
T COLIFORM BCKGRD MF (CT/100ML)			**DET'N LIMIT = 0**		**GUIDELINE = N/A**	
JAN	2920 A3C	0 T24	.	0 T24	.	0 T24
FEB	840 T24	0 T24	.	0 T24	.	0 T24
MAR	2400 A3C	0 T48	.	0 T48	.	0 T48
APR	64 T24	0 T24	.	0 T24	.	0 T24
MAY	9600 >	0	.	0	.	0

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM PETERBOROUGH WSS 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM			
	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
JUN	48000 >	0	.	0	.	6
JUL	48000 >	0	.	0	.	14
AUG	22000 A3C	0	.	.	.	9
SEP	.	.	.	0	.	260
OCT	8600 A3C	6	.	3	.	2
NOV	.	.	.	0	.	0
DEC	3600 A3C	0	.	0	.	0

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM PETERBOROUGH WSS 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM			
	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
CHEMISTRY (FLD)						
FLD CHLORINE (COMB) ( )			**DET'N LIMIT =**		**GUIDELINE =**	
JAN	.	.260	.200	.200	.100	.
FEB	.	.250	.600	.400	.100	.400
MAR	.	.150	.600	.200	.100	.100
APR	.	.240	.400	.400	.100	.300
MAY	.	.260	.400	.400	.100	.100
JUN	.	.220	.200	.200	.200	.200
JUL	.	.270	.400	.400	.100	.000
AUG	.	1.560	.	.	.100	.100
SEP	.	.250	.200	.200	.100	.200
OCT	.	.220	.400	.400	.100	.100
NOV	.	.220	.400	.400	.100	.100
DEC	.	.180	.200	.200	.000	.100
FLD CHLORINE FREE ( )			**DET'N LIMIT =**		**GUIDELINE =**	
JAN	.	1.060	.100	1.300	.200	.300
FEB	.	1.250	.100	.900	.200	.100
MAR	.	1.450	.100	1.300	.100	.200
APR	.	1.180	.300	1.100	.200	.200
MAY	.	1.240	.300	1.100	.100	.300
JUN	.	1.330	.100	.900	.100	.100
JUL	.	1.330	.100	1.100	.100	.100
AUG	.	.240	.	.	.100	.100
SEP	.	1.200	.500	.900	.100	.100
OCT	.	1.330	.300	1.100	.100	.100
NOV	.	1.230	.300	1.100	.100	.200
DEC	.	1.270	.300	1.500	.100	.300
FLD CHLORINE (TOTAL) ( )			**DET'N LIMIT =**		**GUIDELINE =**	
JAN	.	1.320	.300	1.500	.300	.300
FEB	.	1.500	.700	1.300	.100	.500
MAR	.	1.600	.700	1.500	.200	.300
APR	.	1.420	.700	1.500	.300	.500
MAY	.	1.500	.700	1.500	.200	.400
JUN	.	1.550	.300	1.100	.300	.300
JUL	.	1.600	.500	1.500	.200	.100
AUG	.	1.800	.	.	.200	.200
SEP	.	1.450	.700	1.100	.200	.300
OCT	.	1.550	.700	1.500	.200	.200
NOV	.	1.450	.700	1.500	.200	.300
DEC	.	1.450	.500	1.700	.100	.200
FLD PH (DMNSLESS)			**DET'N LIMIT = N/A**		**GUIDELINE = 6.5-8.5(A4)**	
JAN	7.900	7.300	7.400	7.000	7.300	7.300
FEB	7.800	7.300	7.400	7.400	7.300	7.300
MAR	7.850	7.250	7.200	7.400	7.500	7.500

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM PETERBOROUGH WSS 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM			
	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
APR	7.600	7.000	7.400	7.200	7.500	7.300
MAY	7.800	7.000	7.200	7.200	7.300	7.300
JUN	7.900	6.900	7.200	7.000	7.300	7.100
JUL	7.900	6.750	7.000	6.800	7.200	7.100
AUG	8.100	7.000	.	.	7.100	7.100
SEP	8.000	6.800	7.200	7.200	7.300	7.000
OCT	7.950	6.900	7.200	7.200	7.200	7.000
NOV	7.850	6.700	7.200	7.000	7.400	7.500
DEC	7.900	6.850	7.200	7.200	7.000	6.900
FLD TEMPERATURE (DEG.C)			DET'N LIMIT = N/A		GUIDELINE = 15 (A1)	
JAN	.100	.100	19.000	3.500	20.500	6.500
FEB	.100	.300	11.500	3.000	19.500	9.000
MAR	.300	.400	11.500	2.500	20.500	4.000
APR	2.500	2.500	12.000	5.000	20.000	5.500
MAY	8.300	8.300	14.000	10.000	19.500	9.500
JUN	18.500	18.000	17.500	17.000	22.500	15.500
JUL	25.000	25.000	20.000	22.500	24.000	20.500
AUG	23.000	23.000	.	.	24.000	20.000
SEP	20.600	20.600	20.000	20.000	21.500	19.500
OCT	10.600	10.800	18.000	15.000	21.000	16.000
NOV	5.600	5.700	15.000	8.500	24.000	13.500
DEC	.100	.300	13.000	3.000	20.500	9.000
FLD TURBIDITY (FTU)			DET'N LIMIT = N/A		GUIDELINE = 1.0 (A1)	
JAN	.500	.350	.800	.440	.550	.410
FEB	.340	.250	.310	.400	.390	.300
MAR	.300	.210	.270	.300	.230	.250
APR	.630	.350	.460	.390	.510	.400
MAY	.670	.200	.360	.270	.310	.300
JUN	.590	.260	.420	.	.500	.650
JUL	.980	.160	.290	.250	.360	.240
AUG	.940	.180	.	.	.350	.320
SEP	1.020	.200	.310	.250	.260	.240
OCT	.630	.180	.210	.230	.320	.310
NOV	.480	.160	.180	.150	.300	.270
DEC	.450	.160	.280	.230	.520	.400

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM PETERBOROUGH WSS 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM			
	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
CHEMISTRY (LAB)						
ALKALINITY (MG/L)			DET'N LIMIT = .200		GUIDELINE = 30-500 (A4)	
JAN	75.700	69.000	69.800	69.100	69.800	69.500
FEB	82.900	75.100	75.800	75.400	75.700	75.800
MAR	82.000	74.700	75.100	74.200	75.800	75.200
APR	84.000	80.000	66.900	67.000	67.900	67.700
MAY	76.600	67.300	67.700	67.400	68.700	68.500
JUN	77.000	61.500	63.600	64.100	63.300	63.500
JUL	84.300	62.800	60.900	62.300	64.000	62.100
AUG	80.200	58.800	.	.	59.800	60.300
SEP	78.100	59.100	58.400	58.500	60.900	60.500
OCT	74.700	58.800	59.200	58.900	62.200	61.900
NOV	71.100	48.900	49.300	47.400	50.800	49.200
DEC	76.400	53.900	55.900	56.800	56.200	57.400
CALCIUM (MG/L)			DET'N LIMIT = .100		GUIDELINE = 100 (F2)	
JAN	29.200	28.600	29.400	30.600	29.800	29.800
FEB	34.000	33.600	36.000	35.200	36.200	34.400
MAR	35.000	35.000	35.000	34.400	35.200	35.000
APR	31.400	32.000	31.800	31.000	31.600	31.200
MAY	30.400	33.200	32.600	31.600	33.200	32.600
JUN	32.800	32.800	33.000	32.600	32.400	34.000
JUL	34.000	34.000	34.200	34.000	35.000	34.200
AUG	34.600	33.800	.	.	34.800	33.600
SEP	31.600	31.400	31.600	31.400	31.800	30.400
OCT	32.000	31.700	32.100	32.100	33.300	33.400
NOV	27.000	26.800	29.800	29.200	30.000	30.400
DEC	33.800	33.000	32.600	32.600	32.600	32.600
CHLORIDE (MG/L)			DET'N LIMIT = .200		GUIDELINE = 250 (A3)	
JAN	7.200	10.200	10.700	10.100	10.700	10.400
FEB	7.900	11.700	12.000	11.800	11.700	11.500
MAR	7.900	11.700	12.000	11.500	12.000	11.700
APR	1.600	1.600	11.400	10.700	11.000	10.800
MAY	8.000	13.200	13.500	13.300	13.500	13.300
JUN	7.800	11.900	12.300	11.900	12.400	12.500
JUL	7.900	12.400	13.100	12.600	13.000	12.800
AUG	7.700	11.800	.	.	12.200	12.200
SEP	7.300	11.700	12.000	11.700	11.900	11.900
OCT	8.000	10.600	10.900	10.500	11.100	10.800
NOV	7.300	10.900	11.000	10.700	11.000	10.900
DEC	7.300	9.600	9.900	9.800	10.100	10.100
COLOUR (HZU)			DET'N LIMIT = .5		GUIDELINE = 5.0 (A3)	
JAN	11.000	6.000	6.500	6.000	6.500	7.000
FEB	13.000	5.500	7.000	6.000	7.500	6.500
MAR	15.000	6.500	7.500	6.500	8.500	7.000

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	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM			
	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
APR	12.500	7.000	8.000	8.000	9.500	9.000
MAY	15.500	4.500	5.500	4.500	6.000	5.500
JUN	2.500	4.000	6.500	5.000	5.500	6.500
JUL	15.000	3.500	4.500	4.000	5.500	4.500
AUG	12.500	2.500	.	.	5.000	4.500
SEP	11.000	3.000	4.000	3.500	4.500	4.500
OCT	11.000	3.000	4.000	3.500	5.500	5.500
NOV	11.000	2.500	3.500	3.000	5.000	5.000
DEC	13.500	2.000 <T	3.000	3.500	7.000	6.500
CONDUCTIVITY (UMHO/CM)			DET'N LIMIT = 1		GUIDELINE = 400 (F2)	
JAN	198	203	204	203	208	203
FEB	222	225	228	227	234	225
MAR	223	226	231	228	234	229
APR	205	211	211	210	217	211
MAY	208	214	218	216	222	217
JUN	205	212	213	211	213	217
JUL	211	222	224	223	229	225
AUG	203	214	.	.	220	214
SEP	198	207	210	208	213	210
OCT	193	200	202	200	208	203
NOV	187	197	202	199	210	200
DEC	196	208	209	205	211	206
FLUORIDE (MG/L)			DET'N LIMIT = .01		GUIDELINE = 2.400 (A1)	
JAN	.060	.960	1.200	1.180	1.040	1.000
FEB	.060	.980	1.180	1.120	1.040	.960
MAR	.080	.900	1.120	1.000	.960	.960
APR	.060	.780	1.020	.960	1.020	.840
MAY	.060	.820	1.000	.940	.900	.860
JUN	.060	1.200	.440	.160	.860	1.080
JUL	.060	1.060	1.040	1.060	1.040	.980
AUG	.060	1.080	.	.	1.040	1.040
SEP	.060	.920	.880	.860	.760	.760
OCT	.060	.880	.840	.860	.720	.760
NOV	.060	1.600	1.140	1.220	1.060	1.080
DEC	.060	1.040	1.220	1.140	1.020	1.020
HARDNESS (MG/L)			DET'N LIMIT = .500		GUIDELINE = 80-100 (A4)	
JAN	88.000	86.000	86.000	89.000	88.000	88.000
FEB	100.000	100.000	105.000	103.000	106.000	101.000
MAR	101.000	100.000	103.000	102.000	103.000	104.000
APR	92.000	93.000	93.000	91.000	92.000	92.000
MAY	89.000	96.000	95.000	92.000	96.000	95.000
JUN	95.000	95.000	96.000	94.000	94.000	98.000
JUL	99.000	98.000	99.000	98.000	100.000	98.000
AUG	100.000	97.000	.	.	100.000	98.000

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DRINKING WATER SURVEILLANCE PROGRAM PETERBOROUGH WSS 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM			
	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
SEP	92.000	91.000	92.000	91.000	92.000	89.000
OCT	92.300	91.500	93.000	93.700	96.100	96.300
NOV	79.800	79.300	88.000	86.000	89.000	89.000
DEC	99.000	96.000	96.000	96.000	95.600	94.800
IONCAL (DMNSLESS)			DET'N LIMIT = N/A		GUIDELINE = N/A	
JAN	5.841	4.261	5.660	.896	4.456	3.222
FEB	.213	.887	5.942	4.512	6.460	2.863
MAR	.037	.692	3.133	2.822	1.793	3.807
APR	2.142	7.521	6.379	4.801	3.723	4.505
MAY	3.947	4.641	3.090	.774	2.947	2.256
JUN	4.742	6.671	3.930	3.290	2.888	6.883
JUL	.432	2.485	2.236	2.230	2.570	1.699
AUG	6.377	6.775	.	.	7.305	4.094
SEP	1.054	2.858	1.505	2.106	1.681	2.102
OCT	4.753	6.981	8.118	8.854	7.773	8.769
NOV	4.589	1.745	6.347	5.315	4.941	6.192
DEC	2.815	6.650	5.710	10.130	.476	1.041
LANGELIERS INDEX (DMNSLESS)			DET'N LIMIT = N/A		GUIDELINE = N/A	
JAN	.025	-.286	-.249	-.256	-.205	-.285
FEB	.241	-.098	-.025	-.057	-.035	-.044
MAR	.129	-.083	.078	.086	.103	.009
APR	.209	.114	.034	.004	.055	.030
MAY	.144	.124	.067	.032	.070	.082
JUN	.020	-.270	-.103	-.184	-.283	-.172
JUL	.013	-.549	-.521	-.593	-.501	-.593
AUG	.242	-.117	.	.	-.050	-.019
SEP	.173	-.214	-.178	-.229	-.148	-.179
OCT	.121	-.090	-.082	-.043	-.007	-.006
NOV	-.022	-.341	-.254	-.288	-.311	-.355
DEC	.064	-.453	-.293	-.124	-.111	-.130
MAGNESIUM (MG/L)			DET'N LIMIT = .050		GUIDELINE = 30 (F2)	
JAN	3.600	3.600	3.200	3.100	3.200	3.300
FEB	3.800	3.800	3.800	3.700	3.700	3.700
MAR	3.300	3.200	3.800	3.900	3.700	3.900
APR	3.300	3.300	3.300	3.200	3.200	3.300
MAY	3.200	3.200	3.300	3.200	3.300	3.300
JUN	3.200	3.200	3.200	3.200	3.200	3.200
JUL	3.300	3.300	3.300	3.100	3.000	3.100
AUG	3.200	3.200	.	.	3.200	3.300
SEP	3.100	3.200	3.100	3.100	3.200	3.100
OCT	3.000	3.050	3.100	3.200	3.150	3.200
NOV	3.000	3.000	3.300	3.300	3.300	3.200
DEC	3.700	3.500	3.600	3.600	3.500	3.250

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	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM			
	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
SODIUM (MG/L)			DET'N LIMIT = .200		GUIDELINE = 200 (C3)	
JAN	3.600	4.000	3.800	3.800	4.000	3.800
FEB	4.200	4.000	4.400	4.400	4.400	4.400
MAR	4.400	4.200	4.600	4.400	4.400	4.600
APR	4.200	4.200	4.200	4.200	4.200	4.000
MAY	4.000	4.000	4.200	4.200	4.200	4.000
JUN	4.200	4.000	4.200	4.000	4.000	4.400
JUL	3.600	3.800	4.000	4.200	4.400	4.200
AUG	4.200	4.000	.	.	3.800	3.400
SEP	3.800	3.800	3.800	3.800	4.000	3.800
OCT	4.300	4.300	4.300	4.200	4.500	4.200
NOV	3.900	3.900	4.200	4.000	4.000	3.800
DEC	4.200	4.000	4.000	4.000	1.300	1.600
AMMONIUM TOTAL (MG/L)			DET'N LIMIT = 0.002		GUIDELINE = .05 (F2)	
JAN	.036	.008 <T	.010	.010	.336	.004 <T
FEB	.028	.004 <T	.022	.004 <T	.800	.006 <T
MAR	.010	.002 <T	.024	.006 <T	.210	.006 <T
APR	.048	.008 <T	.032	.008 <T	.268	.008 <T
MAY	.032	.002 <T	.014	.002 <T	.308	BDL
JUN	.016	.010	.014	.018	.010	.106
JUL	.024	.002 <T	.006 <T	.004 <T	.218	.002 <T
AUG	.028	.002 <T	.	.	.410	.004 <T
SEP	.062	.004 <T	.016	.006 <T	.266	.004 <T
OCT	.022	.008	.010	.008	.330	.002
NOV	.020	.008 <T	.052	.008 <T	.690	.008 <T
DEC	.008 <T	BDL	.008 <T	BDL	.206	.012
NITRITE (MG/L)			DET'N LIMIT = 0.001		GUIDELINE = 1.000 (A1)	
JAN	.005	.003 <T	.004 <T	.004 <T	.004 <T	.004 <T
FEB	.004 <T	BDL	.002 <T	.001 <T	.002 <T	.001 <T
MAR	.003 <T	BDL	.002 <T	.001 <T	.002 <T	.001 <T
APR	.007	.001 <T	.002 <T	.001 <T	.002 <T	.001 <T
MAY	.013	.004 <T	.005	.004 <T	.005	.004 <T
JUN	.031	.010	.008	.007	.007	.007
JUL	.003 <T	.001 <T	.001 <T	.001 <T	.001 <T	.001 <T
AUG	.003 <T	.002 <T	.	.	.004 <T	.003 <T
SEP	.001 <T	BDL	BDL	.001 <T	BDL	.001 <T
OCT	.002 <T	.001 <T	.002 <T	.001 <T	.002 <T	.002 <T
NOV	.003 <T	.001 <T	.002 <T	.001 <T	.002 <T	.001 <T
DEC	.002 <T	BDL	.002 <T	BDL	.002 <T	.002 <T
TOTAL NITRATES (MG/L)			DET'N LIMIT = .020		GUIDELINE = 10.000 (A1)	
JAN	.075 <T	.070 <T	.070 <T	.070 <T	.480	.065 <T
FEB	.155	.125	.125	.120	1.000	.115
MAR	.150	.145	.145	.135	.390	.135
APR	.230	.215	.255	.240	.905	.230

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	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM			
	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
MAY	.270	.255	.260	.260	.710	.265
JUN	BDL	BDL	BDL	BDL	BDL	.145
JUL	.030	.025	.030	.025	.190	.025
AUG	.010 <T	BDL	.	.	.510	BDL
SEP	.020 <T	.015 <T	.020 <T	.010 <T	.360	.015 <T
OCT	.010 <T	.005 <T	.010 <T	BDL	.460	BDL
NOV	.055	.045	.055	.045	.900	.050
DEC	.060	.060	.075	.075	.315	.020 <T
NITROGEN TOT KJELD (MG/L)			DET'N LIMIT = .020		GUIDELINE = N/A	
JAN	.370	.330	.390	.330	.730	.320
FEB	.370	.320	.380	.320	1.260	.340
MAR	.380	.340	.440	.340	.600	.340
APR	.430	.340	.400	.330	.610	.300
MAY	.420	.280	.340	.300	.690	.310
JUN	.420	.290	.400	.310	.300	.440
JUL	.490	.270	.410	.280	.540	.290
AUG	.410	.230	.	.	.690	.300
SEP	.480	.340	.420	.300	.610	.300
OCT	.410	.290	.340	.290	.680	.290
NOV	.410	.260	.420	.240	1.110	.240
DEC	.380	.220	.280	.250	.470	.310
PH (DMNSLESS)			DET'N LIMIT = N/A		GUIDELINE = 6.5-8.5(A4)	
JAN	8.080	7.820	7.840	7.820	7.880	7.800
FEB	8.200	7.910	7.950	7.930	7.940	7.950
MAR	8.080	7.910	8.070	8.090	8.090	8.000
APR	8.190	8.110	8.110	8.090	8.130	8.110
MAY	8.180	8.180	8.130	8.110	8.120	8.140
JUN	8.020	7.830	7.980	7.900	7.810	7.900
JUL	7.960	7.530	7.570	7.490	7.560	7.490
AUG	8.200	7.990	.	.	8.040	8.080
SEP	8.180	7.920	7.960	7.910	7.970	7.960
OCT	8.140	8.040	8.040	8.080	8.080	8.080
NOV	8.090	7.940	7.980	7.970	7.910	7.870
DEC	8.050	7.700	7.850	8.010	8.030	8.000
PHOSPHORUS FIL REACT (MG/L)			DET'N LIMIT = .0005		GUIDELINE = N/A	
JAN	BDL	.005	.	.	.	.
FEB	BDL	.005	.	.	.	.
MAR	BDL	.005	.	.	.	.
APR	BDL	.003	.	.	.	.
MAY	BDL	BDL	.	.	.	.
JUN	BDL	.000 <T	.	.	.	.
JUL	BDL	.003	.	.	.	.
AUG	BDL	.004	.	.	.	.
SEP	.000 <T	.004	.	.	.	.

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DRINKING WATER SURVEILLANCE PROGRAM PETERBOROUGH WSS 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM			
	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
OCT	BDL	.003	.	.	.	.
NOV	.001 <T	.005	.	.	.	.
DEC	.000 <T	.004	.	.	.	.
PHOSPHORUS TOTAL (MG/L)			DET'N LIMIT = .002		GUIDELINE = .40 (F2)	
JAN	.008	.017	.	.	.	.
FEB	.003 <T	.008 <T	.	.	.	.
MAR	.009 <T	.014	.	.	.	.
APR	.012	.013	.	.	.	.
MAY	.012	.010	.	.	.	.
JUN	.023	.018	.	.	.	.
JUL	.024	.012	.	.	.	.
AUG	.012	.010	.	.	.	.
SEP	.011	.011	.	.	.	.
OCT	.009 <T	.004 <T	.	.	.	.
NOV	.010	.010	.	.	.	.
DEC	.009 <T	.009 <T	.	.	.	.
SULPHATE (MG/L)			DET'N LIMIT = .200		GUIDELINE = 500. (A3)	
JAN	14.500	14.730	14.480	14.130	14.580	14.350
FEB	14.280	14.610	14.890	14.720	14.470	14.560
MAR	16.220	16.510	16.410	16.820	16.580	16.400
APR	11.550	11.900	11.670	11.680	11.320	11.600
MAY	12.330	12.700	12.780	12.760	12.790	12.600
JUN	11.040	18.240	19.010	18.360	18.340	18.600
JUL	10.820	22.820	24.810	23.330	23.330	24.240
AUG	10.670	23.080	.	.	22.300	22.270
SEP	10.150	20.530	22.140	21.430	20.660	20.740
OCT	10.550	19.930	19.160	19.570	19.010	19.200
NOV	10.300	23.840	25.390	26.610	24.380	25.830
DEC	23.900	30.000	27.950	23.360	27.090	24.500
TURBIDITY (FTU)			DET'N LIMIT = .02		GUIDELINE = 1.00 (A1)	
JAN	.940	.660	1.420 RRV	1.420 RRV	1.340 RRV	.520
FEB	2.500	.900	.980	.740	1.220 RRV	.870
MAR	.530	.450	.580	.480	.620	.640
APR	1.500	.720	1.000 RRV	.660	.840	.630
MAY	1.200	.750	.800	.900	.790	.560
JUN	1.140	.680	.910	.790	.700	.720
JUL	1.290	.490	.650	.680	.480	.700
AUG	1.190	.340	.	.	.470	.440
SEP	.790	.950	.750	.410	.550	.650
OCT	.580	.460	.610	.620	.780	.660
NOV	.480	.410	.340	.2 <T	.510	.470
DEC	.480	.160	.490	.340	1.260 RRV	.890

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DRINKING WATER SURVEILLANCE PROGRAM PETERBOROUGH WSS 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM			
	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
METALS						
SILVER (UG/L)			DET'N LIMIT = .020		GUIDELINE = 50. (A1)	
JAN	BDL	BDL	BDL	BDL	.030 <T	BDL
FEB	BDL	BDL	BDL	BDL	.060 <T	.030 <T
MAR	BDL	.040 <T	BDL	BDL	.060 <T	.030 <T
APR	.070 <T	.040 <T	BDL	.060 <T	.080 <T	BDL
MAY	BDL	.030 <T	BDL	BDL	BDL	.160 <T
JUN	BDL	BDL	BDL	BDL	.070 <T	BDL
JUL	BDL	BDL	.080 <T	.040 <T	.070 <T	BDL
AUG	BDL	BDL	.	.	.050 <T	BDL
SEP	BDL	BDL	BDL	BDL	BDL	BDL
OCT	BDL	BDL	BDL	BDL	BDL	BDL
NOV	BDL	BDL	BDL	BDL	.030 <T	BDL
DEC	BDL	BDL	BDL	BDL	BDL	BDL
ALUMINUM (UG/L)			DET'N LIMIT = .050		GUIDELINE = 100.(A4)	
JAN	12.760	174.000	127.600	174.000	162.400	162.400
FEB	6.728	348.000	290.000	301.600	313.200	336.400
MAR	8.700	336.400	266.800	290.000	278.400	301.600
APR	19.720	208.800	185.600	197.200	197.200	197.200
MAY	15.080	232.000	208.800	232.000	220.400	278.400
JUN	17.000	360.000	390.000	380.000	290.000	330.000
JUL	23.000	200.000	130.000	250.000	140.000	140.000
AUG	39.000	170.000	.	.	130.000	130.000
SEP	17.000	190.000	160.000	160.000	160.000	6.000
OCT	8.600	240.000	150.000	150.000	180.000	210.000
NOV	8.300	140.000	82.000	85.000	79.000	100.000
DEC	10.000	110.000	140.000	200.000	110.000	160.000
ARSENIC (UG/L)			DET'N LIMIT = 0.050		GUIDELINE = 50.0 (A1)	
JAN	.300 <T	.630 <T	.540 <T	.580 <T	.510 <T	.620 <T
FEB	BDL	.290 <T	.300 <T	.150 <T	.100 <T	BDL
MAR	.760 <T	1.100	1.100	.830 <T	.900 <T	1.100
APR	.670 <T	.940 <T	.840 <T	1.000 <T	.850 <T	.760 <T
MAY	.310 <T	.390 <T	.410 <T	.500 <T	.500 <T	.500 <T
JUN	.760 <T	1.300	.830 <T	.800 <T	1.100	.560 <T
JUL	.760 <T	1.300	.850 <T	.560 <T	.510 <T	.600 <T
AUG	.900 <T	1.200	.	.	1.100	.930 <T
SEP	.760 <T	.900 <T	.670 <T	.780 <T	.750 <T	.450 <T
OCT	.370 <T	.590 <T	.420 <T	.630 <T	.490 <T	.440 <T
NOV	.430 <T	.670 <T	.630 <T	.610 <T	.580 <T	.580 <T
DEC	.220 <T	.250 <T	.450 <T	.560 <T	.520 <T	.300 <T
BARIUM (UG/L)			DET'N LIMIT = 0.020		GUIDELINE = 1000. (A1)	
JAN	29.000	28.000	32.000	28.000	32.000	28.000
FEB	31.000	31.000	33.000	31.000	33.000	30.000
MAR	31.000	31.000	36.000	34.000	39.000	33.000

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM PETERBOROUGH WSS 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM			
	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
APR	33.000	33.000	34.000	32.000	36.000	32.000
MAY	30.000	29.000	30.000	30.000	32.000	30.000
JUN	32.000	31.000	31.000	31.000	35.000	33.000
JUL	36.000	35.000	32.000	33.000	35.000	34.000
AUG	30.000	30.000	.	.	30.000	29.000
SEP	31.000	30.000	31.000	31.000	30.000	13.000
OCT	29.000	28.000	29.000	28.000	27.000	27.000
NOV	29.000	28.000	30.000	27.000	31.000	28.000
DEC	28.000	28.000	29.000	27.000	30.000	26.000
BORON (UG/L)			DET'N LIMIT = 0.200		GUIDELINE = 5000. (A1)	
JAN	11.000 <T	8.500 <T	9.300 <T	7.500 <T	11.000 <T	25.000
FEB	8.600 <T	32.000	44.000	9.500 <T	34.000	10.000 <T
MAR	49.000	49.000	27.000	18.000 <T	16.000 <T	14.000 <T
APR	63.000	28.000	130.000	29.000	110.000	52.000
MAY	65.000	86.000	45.000	16.000 <T	94.000	75.000
JUN	26.000 <T	16.000 <T	15.000 <T	8.600 <T	25.000	10.000 <T
JUL	19.000 <T	26.000	24.000	24.000	15.000 <T	25.000
AUG	29.000	29.000	.	.	28.000	10.000 <T
SEP	27.000	27.000	8.900 <T	24.000	20.000 <T	9.300 <T
OCT	13.000 <T	11.000 <T	13.000 <T	13.000 <T	13.000 <T	9.700 <T
NOV	19.000 <T	16.000 <T	12.000 <T	9.500 <T	15.000 <T	18.000 <T
DEC	10.000 <T	10.000 <T	12.000 <T	9.500 <T	9.600 <T	9.600 <T
BERYLLIUM (UG/L)			DET'N LIMIT = 0.010		GUIDELINE = N/A	
JAN	BDL	BDL	BDL	BDL	BDL	BDL
FEB	BDL	.040 <T	BDL	BDL	.060 <T	BDL
MAR	.130 <T	.180 <T	BDL	BDL	BDL	BDL
APR	.060 <T	BDL	.150 <T	BDL	.140 <T	BDL
MAY	BDL	.060 <T	.020 <T	BDL	.060 <T	BDL
JUN	BDL	BDL	BDL	BDL	BDL	BDL
JUL	.050 <T	.070 <T	.020 <T	.070 <T	.040 <T	.070 <T
AUG	.100 <T	.130 <T	.	.	.130 <T	.040 <T
SEP	.020 <T	.040 <T	.030 <T	.070 <T	.030 <T	BDL
OCT	.020 <T	BDL	.020 <T	BDL	.030 <T	BDL
NOV	BDL	.020 <T	BDL	BDL	.040 <T	.030 <T
DEC	BDL	BDL	BDL	BDL	BDL	BDL
CADMIUM (UG/L)			DET'N LIMIT = 0.050		GUIDELINE = 5.000 (A1)	
JAN	.080 <T	.100 <T	.060 <T	.070 <T	.180 <T	.090 <T
FEB	.090 <T	23.000	BDL	BDL	.500 <T	BDL
MAR	BDL	BDL	.200 <T	BDL	.260 <T	BDL
APR	BDL	BDL	BDL	BDL	.270 <T	BDL
MAY	BDL	BDL	.350 <T	BDL	.210 <T	BDL
JUN	BDL	BDL	.120 <T	.080 <T	.380 <T	BDL
JUL	BDL	BDL	.170 <T	BDL	.290 <T	BDL
AUG	BDL	BDL	.	.	.150 <T	BDL

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM PETERBOROUGH WSS 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM			
	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
SEP	BDL	BDL	.160 <T	BDL	.110 <T	BDL
OCT	BDL	BDL	BDL	BDL	BDL	BDL
NOV	BDL	BDL	BDL	BDL	.160 <T	BDL
DEC	BDL	BDL	BDL	BDL	.090 <T	BDL
COBALT (UG/L)			DET'N LIMIT = 0.020		GUIDELINE = N/A	
JAN	.110 <T	.090 <T	.150 <T	.100 <T	.110 <T	.060 <T
FEB	.150 <T	.190 <T	.190 <T	.230 <T	.170 <T	.120 <T
MAR	.140 <T	.160 <T	.150 <T	.170 <T	.130 <T	.280 <T
APR	.130 <T	.100 <T	.120 <T	.100 <T	1.200	.070 <T
MAY	.190 <T	.170 <T	.230 <T	.180 <T	.190 <T	.030 <T
JUN	.150 <T	.060 <T	.070 <T	.170 <T	.150 <T	.090 <T
JUL	.220 <T	.190 <T	.220 <T	.200 <T	.210 <T	.170 <T
AUG	.090 <T	.090 <T	.	.	.150 <T	.160 <T
SEP	.150 <T	.100 <T	.140 <T	.120 <T	.140 <T	.060 <T
OCT	.090 <T	.060 <T	.070 <T	.100 <T	.100 <T	.050 <T
NOV	.110 <T	.380 <T	.070 <T	BDL	.070 <T	.060 <T
DEC	.120 <T	.150 <T	.140 <T	.160 <T	.180 <T	.100 <T
CHROMIUM (UG/L)			DET'N LIMIT = 0.100		GUIDELINE = 50. (A1)	
JAN	.170 <T	.270 <T	BDL	BDL	.640 <T	3.500
FEB	.170 <T	4.900	6.800	.270 <T	4.700	.230 <T
MAR	5.600	5.400	2.000	1.300	1.000 <T	.790 <T
APR	2.300	.700 <T	5.100	.660 <T	4.500	1.700
MAY	4.200	5.500	2.500	.430 <T	5.600	5.600
JUN	2.500	2.200	1.000 <T	.330 <T	4.100	.700 <T
JUL	2.000	4.000	4.500	4.900	2.100	4.900
AUG	3.600	3.800	.	.	3.700	.470 <T
SEP	3.100	3.700	.280 <T	2.900	2.200	.290 <T
OCT	1.500	1.100	.310 <T	1.800	1.800	.330 <T
NOV	1.800	1.400	BDL	BDL	1.000 <T	1.800
DEC	BDL	BDL	BDL	BDL	BDL	BDL
COPPER (UG/L)			DET'N LIMIT = .100		GUIDELINE = 1000 (A3)	
JAN	5.800	.650 <T	510.000	14.000	160.000	16.000
FEB	8.400	.840 <T	190.000	12.000	180.000	15.000
MAR	8.700	.710 <T	200.000	14.000	190.000	17.000
APR	9.500	.750 <T	200.000	21.000	190.000	18.000
MAY	7.400	.720 <T	200.000	17.000	150.000	20.000
JUN	11.000	1.000 <T	190.000	25.000	200.000	25.000
JUL	7.000	.860 <T	250.000	32.000	180.000	25.000
AUG	4.600	.860 <T	.	.	100.000	30.000
SEP	4.400	.580 <T	260.000	35.000	110.000	6.500
OCT	3.700	.460 <T	160.000	23.000	230.000	30.000
NOV	4.900	.450 <T	320.000	26.000	340.000	39.000
DEC	3.300 <T	BDL	310.000	16.000	400.000	34.000

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM PETERBOROUGH WSS 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM			
	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
IRON (UG/L)			DET'N LIMIT = 4.000		GUIDELINE = 300. (A3)	
JAN	45.000 <T	29.000 <T	32.000 <T	34.000 <T	53.000	59.000
FEB	25.000 <T	19.000 <T	21.000 <T	20.000 <T	52.000	54.000
MAR	26.000 <T	21.000 <T	20.000 <T	17.000 <T	54.000	47.000 <T
APR	75.000	50.000 <T	42.000 <T	45.000 <T	85.000	82.000
MAY	49.000 <T	6.600 <T	9.200 <T	7.800 <T	48.000 <T	42.000 <T
JUN	35.000 <T	18.000 <T	19.000 <T	18.000 <T	80.000	71.000
JUL	44.000 <T	6.200 <T	9.500 <T	11.000 <T	99.000	74.000
AUG	37.000 <T	BDL	.	.	60.000	60.000
SEP	26.000 <T	6.700 <T	15.000 <T	14.000 <T	71.000	BDL
OCT	24.000 <T	BDL	8.200 <T	8.800 <T	74.000	90.000
NOV	21.000 <T	BDL	BDL	7.000 <T	110.000	120.000
DEC	29.000 <T	BDL	7.300 <T	18.000 <T	210.000	210.000
MERCURY (UG/L)			DET'N LIMIT = 0.010		GUIDELINE = 1.000 (A1)	
JAN	BDL	.030 <T	.	BDL	.	BDL
FEB	BDL	BDL	.	BDL	.	BDL
MAR	.030 <T	.020 <T	.	BDL	.	BDL
APR	.020 <T	BDL	.	BDL	.	BDL
MAY	.020 <T	.020 <T	.	.020 <T	.	BDL
JUN	.020 <T	.030 <T	.	.020 <T	.	.020 <T
JUL	.030 <T	.020 <T	.	.030 <T	.	.020 <T
AUG	BDL	.030 <T	.	.	.	.020 <T
SEP	.020 <T	.020 <T	.	.020 <T	.	BDL
OCT	.040 <T	ILA	.	.030 <T	.	BDL
NOV	.030 <T	.030 <T	.	.020 <T	.	BDL
DEC	.020 <T	.020 <T	.	.020 <T	.	.020 <T
MANGANESE (UG/L)			DET'N LIMIT = .050		GUIDELINE = 50.0 (A3)	
JAN	5.600	2.600	3.000	2.700	4.900	4.100
FEB	5.800	2.800	2.900	2.600	5.100	4.800
MAR	7.500	2.900	2.700	2.500	4.900	4.500
APR	21.000	6.800	4.600	4.500	8.200	7.700
MAY	14.000	1.600	2.200	1.700	6.600	5.700
JUN	20.000	1.800	2.500	2.500	9.600	7.700
JUL	32.000	1.700	2.500	2.500	9.400	10.000
AUG	20.000	.890	.	.	8.200	9.100
SEP	20.000	1.100	2.200	1.600	8.500	BDL
OCT	13.000	1.000	2.100	1.700	7.000	6.900
NOV	7.000	.890	1.500	1.400	6.800	6.300
DEC	5.000	1.300	2.200	1.700	12.000	11.000
MOLYBDENUM (UG/L)			DET'N LIMIT = 0.020		GUIDELINE = N/A	
JAN	.360 <T	.330 <T	.280 <T	.300 <T	.270 <T	.390 <T
FEB	.430 <T	.490 <T	.450 <T	.380 <T	.400 <T	.460 <T
MAR	.480 <T	.490 <T	.580	.610	.540	.580
APR	.480 <T	.530	.510	.430 <T	.560	.470 <T

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DRINKING WATER SURVEILLANCE PROGRAM PETERBOROUGH WSS 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM			
	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
MAY	.570	.540	.460 <T	.510	.560	.510
JUN	.480 <T	.490 <T	.470 <T	.420 <T	.500 <T	.750
JUL	.670	.580	.640	.530	.630	.490 <T
AUG	.630	.610	.	.	.630	.620
SEP	.600	.550	.560	.570	.540	.650
OCT	.280 <T	.330 <T	.280 <T	.320 <T	.280 <T	.280 <T
NOV	.260 <T	.240 <T	.300 <T	.280 <T	.280 <T	.200 <T
DEC	.300 <T	.350 <T	.370 <T	.320 <T	.310 <T	.300 <T
NICKEL (UG/L)			DET'N LIMIT = 0.100		GUIDELINE = 50. (F3)	
JAN	BDL	.250 <T	9.900	BDL	1.600 <T	BDL
FEB	.240 <T	.330 <T	2.000 <T	.330 <T	1.800 <T	.230 <T
MAR	.340 <T	.450 <T	3.000	BDL	1.100 <T	.320 <T
APR	.240 <T	BDL	2.400	.220 <T	790.000	1.300 <T
MAY	BDL	BDL	6.100	BDL	3.700	BDL
JUN	BDL	BDL	.140 <T	BDL	1.400 <T	BDL
JUL	1.100 <T	1.100 <T	10.000	BDL	2.900	BDL
AUG	BDL	BDL	.	.	1.800 <T	BDL
SEP	.120 <T	BDL	3.800	.110 <T	2.200	.220 <T
OCT	BDL	BDL	4.700	BDL	1.700 <T	BDL
NOV	BDL	BDL	3.500	BDL	2.900	BDL
DEC	BDL	BDL	3.100	BDL	2.600	BDL
LEAD (UG/L)			DET'N LIMIT = 0.050		GUIDELINE = 50. (A1)	
JAN	.160 <T	.120 <T	25.000	.950	9.800	.940
FEB	.180 <T	.330	8.300	1.300	12.000	1.400
MAR	.090 <T	.120 <T	7.300	.850	7.000	.810
APR	.270	.350	8.400	1.300	7.500	.850
MAY	.410	BDL	8.100	1.300	5.300	.960
JUN	.430	.200 <T	9.100	2.000	13.000	1.700
JUL	.800	.150 <T	9.400	2.100	11.000	1.700
AUG	.380	BDL	.	.	5.600	1.800
SEP	.120 <T	.030 <T	9.300	2.300	5.700	.890
OCT	.210	.080 <T	5.700	1.100	8.000	1.000
NOV	.170 <T	.040 <T	6.800	.890	10.000	1.000
DEC	.140 <T	BDL	6.300	.610	16.000	1.100
ANTIMONY (UG/L)			DET'N LIMIT = .050		GUIDELINE = 146. (D4)	
JAN	.400	.420	.310	.300	.350	.560
FEB	.600	.570	.560	.720	.670	.600
MAR	.670	.640	.520	.500	.580	.750
APR	.520	.550	.620	.410	.570	.510
MAY	.720	.650	.830	.760	.840	.610
JUN	.790	.550	.730	1.100	.850	.810
JUL	.960	.630	.880	.710	.990	.890
AUG	.720	.710	.	.	.760	.740
SEP	.590	.600	.720	.600	.670	.820

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DRINKING WATER SURVEILLANCE PROGRAM PETERBOROUGH WSS 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM			
	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
OCT	.500	.450	.510	.490	.520	.530
NOV	.410	.960	.480	.330	.660	.460
DEC	.470 <T	.410 <T	.450 <T	.410 <T	.670	.430 <T
SELENIUM (UG/L)			DET'N LIMIT = 0.200		GUIDELINE = 10. (A1)	
JAN	.300 <T	BDL	.390 <T	BDL	BDL	BDL
FEB	.560 <T	.860 <T	2.100 <T	1.400 <T	.610 <T	1.300 <T
MAR	1.500 <T	.490 <T	2.600 <T	BDL	.390 <T	.530 <T
APR	.430 <T	2.300 <T	1.700 <T	.430 <T	1.700 <T	.800 <T
MAY	2.000 <T	3.100 <T	1.400 <T	2.100 <T	2.100 <T	.750 <T
JUN	1.300 <T	1.700 <T	1.100 <T	BDL	3.300 <T	1.700 <T
JUL	BDL	BDL	1.200 <T	BDL	BDL	1.500 <T
AUG	BDL	BDL	.	.	BDL	BDL
SEP	BDL	BDL	BDL	BDL	BDL	BDL
OCT	BDL	BDL	BDL	BDL	BDL	BDL
NOV	BDL	BDL	BDL	BDL	BDL	BDL
DEC	BDL	BDL	BDL	BDL	BDL	BDL
STRONTIUM (UG/L)			DET'N LIMIT = .050		GUIDELINE = N/A	
JAN	100.000	100.000	110.000	110.000	110.000	100.000
FEB	120.000	120.000	120.000	110.000	120.000	110.000
MAR	120.000	120.000	130.000	130.000	140.000	130.000
APR	120.000	120.000	120.000	120.000	120.000	120.000
MAY	110.000	100.000	110.000	110.000	110.000	110.000
JUN	110.000	100.000	110.000	100.000	110.000	100.000
JUL	120.000	120.000	120.000	120.000	120.000	120.000
AUG	110.000	110.000	.	.	110.000	110.000
SEP	110.000	110.000	110.000	110.000	110.000	57.000
OCT	110.000	110.000	110.000	110.000	110.000	110.000
NOV	100.000	99.000	99.000	99.000	100.000	100.000
DEC	110.000	110.000	110.000	110.000	110.000	110.000
TITANIUM (UG/L)			DET'N LIMIT = .050		GUIDELINE = N/A	
JAN	3.900	3.300	4.000	3.900	3.800	3.900
FEB	3.600	4.000	4.100	3.600	4.200	4.300
MAR	3.900	4.200	5.200	4.600	4.400	4.500
APR	6.600	6.600	7.100	6.600	6.400	6.600
MAY	3.300	3.500	3.600	3.300	4.000	5.800
JUN	6.900	6.800	6.100	5.900	6.900	5.900
JUL	6.700	6.400	6.800	6.700	6.300	6.200
AUG	6.600	5.600	.	.	5.800	5.500
SEP	7.100	7.400	6.900	6.900	6.600	3.000
OCT	3.700	3.800	3.700	3.700	4.000	3.800
NOV	2.200	2.300	2.100	2.300	2.400	2.000 <T
DEC	3.300 <T	3.300 <T	3.800 <T	3.200 <T	3.300 <T	3.100 <T
THALLIUM (UG/L)			DET'N LIMIT = .010		GUIDELINE = 13. (D4)	

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DRINKING WATER SURVEILLANCE PROGRAM PETERBOROUGH WSS 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM			
	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
JAN	BDL	.020 <T	BDL	BDL	BDL	.020 <T
FEB	.070 <T	.040 <T	BDL	.040 <T	BDL	BDL
MAR	BDL	BDL	.020 <T	.040 <T	BDL	.030 <T
APR	BDL	BDL	BDL	BDL	BDL	BDL
MAY	.030 <T	BDL	.040 <T	BDL	BDL	.070 <T
JUN	BDL	BDL	BDL	BDL	BDL	BDL
JUL	.060 <T	.080 <T	BDL	BDL	BDL	BDL
AUG	.020 <T	.020 <T	.	.	.030 <T	BDL
SEP	BDL	BDL	BDL	BDL	BDL	BDL
OCT	BDL	BDL	BDL	BDL	.020 <T	.020 <T
NOV	BDL	.030 <T	BDL	BDL	BDL	.020 <T
DEC	BDL	BDL	BDL	BDL	BDL	BDL
URANIUM (UG/L)			DET'N LIMIT = .020		GUIDELINE = 20. (A2)	
JAN	.220	.200 <T	.160 <T	.190 <T	.190 <T	.210
FEB	.460	.530	.530	.600	.480	.490
MAR	.360	.310	.380	.370	.370	.350
APR	.340	.400	.390	.410	.380	.420
MAY	.390	.260	.210	.230	.290	.270
JUN	.480	.290	.350	.350	.270	.280
JUL	.350	.170 <T	.210	.130 <T	.130 <T	.120 <T
AUG	.380	.210	.	.	.190 <T	.240
SEP	.200 <T	.120 <T	.100 <T	.160 <T	.070 <T	BDL
OCT	.150 <T	.140 <T	.100 <T	.110 <T	.100 <T	.120 <T
NOV	.170 <T	.050 <T	.050 <T	BDL	.040 <T	.030 <T
DEC	.180 <T	BDL	BDL	BDL	BDL	BDL
VANADIUM (UG/L)			DET'N LIMIT = .050		GUIDELINE = N/A	
JAN	.160 <T	.160 <T	.220 <T	.160 <T	.160 <T	.100 <T
FEB	.240 <T	.200 <T	.240 <T	.200 <T	.280 <T	.210 <T
MAR	.260 <T	.240 <T	.240 <T	.220 <T	.240 <T	.170 <T
APR	.240 <T	.210 <T	.220 <T	.210 <T	.230 <T	.190 <T
MAY	.290 <T	.230 <T	.260 <T	.250 <T	.250 <T	.170 <T
JUN	.320 <T	.850	.640	.780	.520	.640
JUL	.550	1.400	1.100	1.300	.960	1.100
AUG	.570	1.400	.	.	.890	.980
SEP	.420 <T	1.100	1.000	1.100	.780	.660
OCT	.360 <T	.870	.840	.800	.570	.630
NOV	.320 <T	.930	.870	.950	.700	.740
DEC	.230 <T	.980	.930	.820	.870	.650
ZINC (UG/L)			DET'N LIMIT = .001		GUIDELINE = 5000. (A3)	
JAN	1.600	.930 <T	180.000	2.900	14.000	2.400
FEB	2.400	1.300	43.000	2.600	15.000	2.900
MAR	2.300	1.200	65.000	2.500	14.000	2.400
APR	3.400	2.000	49.000	3.800	17.000	3.200
MAY	3.000	1.400	76.000	3.100	17.000	3.400

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM PETERBOROUGH WSS 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM			
	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
JUN	4.500	2.400	46.000	5.400	42.000	4.500
JUL	3.200	1.900	81.000	4.000	50.000	4.100
AUG	2.500	1.700	.	.	23.000	3.600
SEP	2.400	1.200	59.000	3.800	22.000	.840 <T
OCT	1.500	.810 <T	47.000	2.700	39.000	2.700
NOV	2.500	1.400	82.000	3.100	65.000	3.600
DEC	1.400 <T	1.400 <T	56.000	2.000 <T	51.000	2.700

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM PETERBOROUGH WSS 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM			
	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
CHLOROAROMATICS						
HEXACHLOROETHANE (NG/L)			DET'N LIMIT = 1.000		GUIDELINE = 1900 (D4)	
JAN	!AR	!AR	.	BDL	.	!AR
FEB	BDL	BDL	.	BDL	.	BDL
MAR	BDL	BDL	.	BDL	.	BDL
APR	BDL	2.000 <T	.	BDL	.	BDL
MAY	BDL	BDL	.	BDL	.	BDL
JUN	BDL	!LA	.	BDL	.	BDL
JUL	BDL	BDL	.	BDL	.	BDL
AUG	BDL	BDL	.	.	.	BDL
SEP	BDL	BDL	.	BDL	.	BDL
OCT	BDL	BDL	.	BDL	.	BDL
NOV	BDL	BDL	.	BDL	.	BDL
DEC	BDL	BDL	.	BDL	.	BDL

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM PETERBOROUGH WSS 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM			
	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
PESTICIDES & PCB						
ALPHA BHC (NG/L)			DET'N LIMIT = 1.000		GUIDELINE = 700 (G)	
JAN	BDL	BDL	.	BDL	.	BDL
FEB	BDL	1.000 <T	.	1.000 <T	.	1.000 <T
MAR	1.000 <T	BDL	.	BDL	.	BDL
APR	BDL	1.000 <T	.	BDL	.	BDL
MAY	BDL	BDL	.	BDL	.	BDL
JUN	1.000 <T	ILA	.	BDL	.	BDL
JUL	BDL	BDL	.	BDL	.	BDL
AUG	BDL	BDL	.	.	.	BDL
SEP	BDL	BDL	.	BDL	.	BDL
OCT	BDL	BDL	.	BDL	.	BDL
NOV	BDL	BDL	.	1.000 <T	.	2.000 <T
DEC	1.000 <T	1.000 <T	.	1.000 <T	.	1.000 <T
BETA BHC (NG/L)			DET'N LIMIT = 1.000		GUIDELINE = 300 (G)	
JAN	BDL	BDL	.	BDL	.	BDL
FEB	BDL	BDL	.	BDL	.	BDL
MAR	BDL	BDL	.	BDL	.	BDL
APR	BDL	BDL	.	BDL	.	BDL
MAY	BDL	BDL	.	BDL	.	BDL
JUN	3.000 <T	ILA	.	BDL	.	BDL
JUL	BDL	BDL	.	BDL	.	BDL
AUG	BDL	BDL	.	.	.	BDL
SEP	BDL	BDL	.	BDL	.	BDL
OCT	BDL	BDL	.	BDL	.	BDL
NOV	BDL	BDL	.	BDL	.	BDL
DEC	BDL	BDL	.	BDL	.	BDL
LINDANE (NG/L)			DET'N LIMIT = 1.000		GUIDELINE = 4000 (A1)	
JAN	BDL	BDL	.	BDL	.	BDL
FEB	BDL	BDL	.	BDL	.	BDL
MAR	BDL	BDL	.	BDL	.	BDL
APR	BDL	BDL	.	BDL	.	BDL
MAY	BDL	BDL	.	BDL	.	BDL
JUN	BDL	ILA	.	BDL	.	BDL
JUL	BDL	BDL	.	BDL	.	BDL
AUG	BDL	BDL	.	.	.	BDL
SEP	BDL	BDL	.	BDL	.	BDL
OCT	BDL	BDL	.	BDL	.	BDL
NOV	BDL	BDL	.	BDL	.	BDL
DEC	1.000 <T	BDL	.	BDL	.	BDL

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM PETERBOROUGH WSS 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM			
	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
PHENOLICS (UG/L PHENOLICS)			DET'N LIMIT = 0.2		GUIDELINE = 2.00 (A3)	
JAN	2.600	3.000	.	.	.	.
FEB	2.800	3.200	.	.	.	.
MAR	2.600	2.600	.	.	.	.
APR	1.800	2.200	.	.	.	.
MAY	2.200	2.600	.	.	.	.
JUN	16.200	1.800	.	.	.	.
JUL	1.600	3.200	.	.	.	.
AUG	1.600	8.800	.	.	.	.
SEP	3.000	3.600	.	.	.	.
OCT	2.400	2.600	.	.	.	.
NOV	1.200	1.600	.	.	.	.
DEC	.600 <T	.600 <T	.	.	.	.

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM PETERBOROUGH WSS 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM			
	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
VOLATILES						
BENZENE (UG/L)			DET'N LIMIT = .050		GUIDELINE = 5.0 (B1)	
JAN	BDL	BDL	.	BDL	.	BDL
FEB	BDL	BDL	.	BDL	.	BDL
MAR	BDL	.050 <T	.	BDL	.	BDL
APR	BDL	BDL	.	BDL	.	BDL
MAY	BDL	.050 <T	.	BDL	.	BDL
JUN	BDL	.050 <T	.	BDL	.	BDL
JUL	BDL	BDL	.	BDL	.	BDL
AUG	BDL	BDL	.	.	.	BDL
SEP	BDL	BDL	.	BDL	.	BDL
OCT	BDL	BDL	.	BDL	.	BDL
NOV	BDL	BDL	.	IU	.	BDL
DEC	BDL	BDL	.	BDL	.	BDL
TOLUENE (UG/L)			DET'N LIMIT = .050		GUIDELINE = 24.0 (B4)	
JAN	BDL	.100 <T	.	BDL	.	BDL
FEB	BDL	.050 <T	.	BDL	.	BDL
MAR	.050 <T	.050 <T	.	BDL	.	BDL
APR	BDL	.100 <T	.	BDL	.	BDL
MAY	BDL	.050 <T	.	BDL	.	.050 <T
JUN	BDL	BDL	.	BDL	.	BDL
JUL	BDL	BDL	.	BDL	.	BDL
AUG	BDL	BDL	.	.	.	BDL
SEP	BDL	BDL	.	BDL	.	BDL
OCT	BDL	BDL	.	BDL	.	BDL
NOV	BDL	BDL	.	IU	.	BDL
DEC	BDL	BDL	.	BDL	.	BDL
ETHYLBENZENE (UG/L)			DET'N LIMIT = .050		GUIDELINE = 2.4 (B4)	
JAN	.050 <T	.100 <T	.	BDL	.	BDL
FEB	.050 <T	.100 <T	.	BDL	.	BDL
MAR	BDL	.100 <T	.	BDL	.	BDL
APR	.050 <T	.150 <T	.	BDL	.	.050 <T
MAY	BDL	BDL	.	BDL	.	BDL
JUN	BDL	BDL	.	BDL	.	BDL
JUL	BDL	BDL	.	BDL	.	BDL
AUG	BDL	BDL	.	.	.	BDL
SEP	BDL	BDL	.	BDL	.	BDL
OCT	BDL	BDL	.	BDL	.	BDL
NOV	BDL	BDL	.	IU	.	BDL
DEC	BDL	BDL	.	BDL	.	BDL
O-XYLENE (UG/L)			DET'N LIMIT = .050		GUIDELINE = 300 (B4)	
JAN	BDL	.050 <T	.	BDL	.	BDL
FEB	BDL	BDL	.	BDL	.	BDL
MAR	BDL	BDL	.	BDL	.	BDL

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM PETERBOROUGH WSS 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM			
	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
APR	BDL	BDL	.	BDL	.	BDL
MAY	BDL	BDL	.	BDL	.	BDL
JUN	BDL	BDL	.	BDL	.	BDL
JUL	BDL	BDL	.	BDL	.	BDL
AUG	BDL	BDL	.	.	.	BDL
SEP	BDL	BDL	.	BDL	.	BDL
OCT	BDL	BDL	.	BDL	.	BDL
NOV	BDL	BDL	.	IU	.	BDL
DEC	BDL	BDL	.	BDL	.	BDL
STYRENE (UG/L)			DET'N LIMIT = .050		GUIDELINE = 46.5 (D2)	
JAN	.450 <T	.250 <T	.	BDL	.	BDL
FEB	.350 <T	.050 <T	.	BDL	.	.050 <T
MAR	.200 <T	.100 <T	.	BDL	.	.100 <T
APR	.400 <T	.350 <T	.	.100 <T	.	.250 <T
MAY	BDL	BDL	.	BDL	.	.050 <T
JUN	BDL	.050 <T	.	.050 <T	.	.100 <T
JUL	BDL	BDL	.	BDL	.	.100 <T
AUG	BDL	.050 <T	.	.	.	.050 <T
SEP	BDL	BDL	.	BDL	.	BDL
OCT	BDL	BDL	.	.100 <T	.	.050 <T
NOV	BDL	BDL	.	IU	.	.150 <T
DEC	BDL	BDL	.	.050 <T	.	.200 <T
CHLOROFORM (UG/L)			DET'N LIMIT = .100		GUIDELINE = 350 (A1+)	
JAN	BDL	134.000	.	110.500	.	86.600
FEB	.200 <T	121.500	.	111.900	.	103.700
MAR	BDL	136.900	.	126.000	.	124.000
APR	BDL	126.600	.	126.000	.	118.000
MAY	BDL	115.000	.	130.000	.	120.000
JUN	BDL	210.000	.	159.000	.	146.000
JUL	.100 <T	150.000	.	153.000	.	136.000
AUG	.900 <T	162.000	.	.	.	127.000
SEP	.300 <T	136.000	.	127.200	.	110.900
OCT	BDL	106.900	.	115.800	.	89.200
NOV	BDL	112.700	.	IU	.	78.100
DEC	BDL	102.200	.	113.400	.	83.700
111, TRICHLOROETHANE (UG/L)			DET'N LIMIT = .020		GUIDELINE = 200 (D1)	
JAN	BDL	BDL	.	BDL	.	BDL
FEB	BDL	BDL	.	BDL	.	BDL
MAR	BDL	BDL	.	BDL	.	BDL
APR	BDL	BDL	.	BDL	.	BDL
MAY	BDL	BDL	.	BDL	.	BDL
JUN	BDL	BDL	.	BDL	.	BDL
JUL	BDL	BDL	.	BDL	.	BDL
AUG	BDL	BDL	.	.	.	BDL

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM PETERBOROUGH WSS 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM			
	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
SEP	BDL	BDL	.	BDL	.	BDL
OCT	.060 <T	BDL	.	BDL	.	BDL
NOV	BDL	BDL	.	IU	.	BDL
DEC	BDL	BDL	.	BDL	.	BDL
DICHLOROBROMOMETHANE (UG/L)			DET'N LIMIT = .050		GUIDELINE = 350 (A1+)	
JAN	BDL	8.800	.	7.850	.	6.550
FEB	BDL	7.750	.	7.900	.	7.200
MAR	BDL	8.200	.	8.000	.	7.700
APR	BDL	5.950	.	6.150	.	5.950
MAY	BDL	5.600	.	5.850	.	5.800
JUN	BDL	6.900 APS	.	6.400	.	5.700
JUL	BDL	6.400	.	6.800	.	6.100
AUG	BDL	7.400	.	.	.	6.400
SEP	BDL	6.800	.	6.600	.	6.100
OCT	BDL	6.500 APS	.	6.850 APS	.	5.850 APS
NOV	BDL	6.600	.	IU	.	5.000
DEC	BDL	6.300	.	6.850	.	5.500
CHLORODIBROMOMETHANE (UG/L)			DET'N LIMIT = .100		GUIDELINE = 350 (A1+)	
JAN	BDL	.200 <T	.	.200 <T	.	.200 <T
FEB	BDL	.200 <T	.	.300 <T	.	.200 <T
MAR	BDL	.900 <T	.	.800 <T	.	.300 <T
APR	BDL	BDL	.	.400 <T	.	.500 <T
MAY	BDL	BDL	.	BDL	.	BDL
JUN	BDL	BDL	.	.300 <T	.	.300 <T
JUL	BDL	.200 <T	.	.400 <T	.	.300 <T
AUG	BDL	.500 <T	.	.	.	.300 <T
SEP	BDL	.400 <T	.	.300 <T	.	.300 <T
OCT	BDL	1.000	.	.400 <T	.	.300 <T
NOV	BDL	.600 <T	.	IU	.	.200 <T
DEC	BDL	.300 <T	.	.200 <T	.	.200 <T
T-CHLOROETHYLENE (UG/L)			DET'N LIMIT = .050		GUIDELINE = 10.0 (C2)	
JAN	BDL	.050 <T	.	BDL	.	BDL
FEB	BDL	.050 <T	.	.050 <T	.	BDL
MAR	BDL	BDL	.	BDL	.	BDL
APR	BDL	BDL	.	BDL	.	BDL
MAY	BDL	BDL	.	BDL	.	BDL
JUN	BDL	BDL	.	BDL	.	BDL
JUL	BDL	BDL	.	BDL	.	BDL
AUG	BDL	BDL	.	.	.	.050 <T
SEP	BDL	BDL	.	BDL	.	BDL
OCT	BDL	BDL	.	BDL	.	BDL
NOV	BDL	BDL	.	IU	.	BDL
DEC	BDL	BDL	.	BDL	.	BDL

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM PETERBOROUGH WSS 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM			
	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
BROMOFORM (UG/L)			DET'N LIMIT = .200		GUIDELINE = 350 (A1+)	
JAN	BDL	BDL	.	BDL	.	BDL
FEB	BDL	BDL	.	BDL	.	BDL
MAR	BDL	BDL	.	BDL	.	BDL
APR	BDL	BDL	.	BDL	.	BDL
MAY	BDL	BDL	.	BDL	.	BDL
JUN	BDL	BDL	.	BDL	.	BDL
JUL	BDL	BDL	.	BDL	.	BDL
AUG	BDL	BDL	.	.	.	BDL
SEP	BDL	BDL	.	BDL	.	BDL
OCT	BDL	.600 <T	.	BDL	.	BDL
NOV	BDL	BDL	.	1U	.	BDL
DEC	BDL	BDL	.	BDL	.	BDL
1,4 DICHLOROBENZENE (UG/L)			DET'N LIMIT = .100		GUIDELINE = 5.0 (B1)	
JAN	BDL	BDL	.	BDL	.	BDL
FEB	BDL	BDL	.	BDL	.	BDL
MAR	BDL	BDL	.	BDL	.	BDL
APR	BDL	BDL	.	BDL	.	BDL
MAY	BDL	BDL	.	BDL	.	BDL
JUN	BDL	BDL	.	.200 <T	.	BDL
JUL	BDL	BDL	.	BDL	.	BDL
AUG	BDL	BDL	.	.	.	BDL
SEP	BDL	BDL	.	BDL	.	BDL
OCT	BDL	BDL	.	BDL	.	BDL
NOV	BDL	BDL	.	1U	.	BDL
DEC	BDL	BDL	.	BDL	.	BDL
1,2 DICHLOROBENZENE (UG/L)			DET'N LIMIT = .050		GUIDELINE = 200 (B1)	
JAN	BDL	BDL	.	BDL	.	BDL
FEB	BDL	BDL	.	BDL	.	BDL
MAR	BDL	BDL	.	BDL	.	BDL
APR	BDL	BDL	.	BDL	.	BDL
MAY	BDL	BDL	.	BDL	.	BDL
JUN	BDL	BDL	.	BDL	.	BDL
JUL	BDL	BDL	.	BDL	.	BDL
AUG	BDL	BDL	.	.	.	BDL
SEP	BDL	.400 <T	.	BDL	.	BDL
OCT	BDL	BDL	.	BDL	.	BDL
NOV	BDL	BDL	.	1U	.	BDL
DEC	BDL	BDL	.	BDL	.	BDL
TOTL TRIHALOMETHANES (UG/L)			DET'N LIMIT = .500		GUIDELINE = 350 (A1)	
JAN	BDL	143.000	.	118.550	.	93.350
FEB	BDL	129.450	.	120.100	.	111.100
MAR	BDL	146.000	.	134.800	.	132.000
APR	BDL	132.550	.	132.550	.	124.450

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM PETERBOROUGH WSS 1989

	WATER TREATMENT PLANT		DISTRIBUTION SYSTEM			
	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
MAY	BDL	120.600	.	135.900	.	125.800
JUN	BDL	216.900	.	165.700	.	152.000
JUL	BDL	156.600	.	160.200	.	142.400
AUG	.900 <T	169.900	.	.	.	133.700
SEP	BDL	143.200	.	134.100	.	117.300
OCT	BDL	115.000	.	123.050	.	95.350
NOV	BDL	119.900	.	IU	.	83.300
DEC	BDL	108.700	.	120.400	.	89.400

TRACE LEVELS OF TOLUENE ARE LABORATORY ARTIFACTS DERIVED FROM THE ANALYTICAL METHODOLOGY.

TRACE LEVELS OF STYRENE ARE CONSIDERED TO BE LABORATORY ARTIFACTS RESULTING FROM THE LABORATORY SHIPPING CONTAINERS.

Table 6

SCAN/PARAMETER	UNIT	DETECTION LIMIT	GUIDELINE
BACTERIOLOGICAL			
FECAL COLIFORM MEMBRANE FILTRATION	CT/100ML	0	0 (A1)
STANDARD PLATE COUNT MEMBRANE FILTRATION	CT/ML	0	500/ML(A1)
TOTAL COLIFORM MEMBRANE FILTRATION	CT/100ML	0	5/100mL(A1)
TOTAL COLIFORM BACKGROUND MF	CT/100ML	0	N/A
CHLOROAROMATICS			
HEXACHLOROBUTADIENE	NG/L	1.000	450. (D4)
1,2,3-TRICHLOROBENZENE	NG/L	5.000	10000 (I)
1,2,3,4-TETRACHLOROBENZENE	NG/L	1.000	10000 (I)
1,2,3,5-TETRACHLOROBENZENE	NG/L	1.000	10000 (I)
1,2,4-TRICHLOROBENZENE	NG/L	5.000	10000 (I)
1,2,4,5-TETRACHLOROBENZENE	NG/L	1.000	38000 (D4)
1,3,5-TRICHLOROBENZENE	NG/L	5.000	10000 (D4)
HEXACHLOROBENZENE	NG/L	1.0	10. (C1)
HEXACHLOROETHANE	NG/L	1.000	1900. (D4)
OCTACHLOROSTYRENE	NG/L	1.000	N/A
PENTACHLOROBENZENE	NG/L	1.000	74000 (D4)
2,3,6-TRICHLOROTOLUENE	NG/L	5.000	N/A
2,4,5-TRICHLOROTOLUENE	NG/L	5.000	N/A
2,6,A-TRICHLOROTOLUENE	NG/L	5.000	N/A
CHLOROPHENOLS			
2,3,4-TRICHLOROPHENOL	NG/L	50.	N/A
2,3,4,5-TETRACHLOROPHENOL	NG/L	50.	N/A
2,3,5,6-TETRACHLOROPHENOL	NG/L	50.	N/A
2,4,5-TRICHLOROPHENOL	NG/L	50.	2600000 (D4)
2,4,6-TRICHLOROPHENOL	NG/L	50.	2000. (B4)
PENTACHLOROPHENOL	NG/L	50.	30000. (B4)
CHEMISTRY (FLD)			
FIELD COMBINED CHLORINE RESIDUAL	MG/L	N/A	N/A
FIELD FREE CHLORINE RESIDUAL	MG/L	N/A	N/A
FIELD TOTAL CHLORINE RESIDUAL	MG/L	N/A	N/A
FIELD PH	DMSNLESS	N/A	6.5-8.5(A4)
FIELD TEMPERATURE	°C	N/A	<15 °C(A1)
FIELD TURBIDITY	FTU	N/A	1.0 (A1)
CHEMISTRY (LAB)			
ALKALINITY	MG/L	.200	30-500(A4)
CALCIUM	MG/L	.100	100. (F2)
CYANIDE	MG/L	.001	.20(A1)
CHLORIDE	MG/L	.200	250. (A3)
COLOUR	TCU	.5	5.0 (A3)
CONDUCTIVITY	UMHO/CM	1.	400. (F2)
FLUORIDE	MG/L	.01	2.4 (A1)
HARDNESS	MG/L	.50	80-100(A4)
MAGNESIUM	MG/L	.05	30. (F2)

SCAN/PARAMETER	UNIT	DETECTION LIMIT	GUIDELINE
NITRITE	MG/L	.001	1.0 (A1)
TOTAL NITRATES	MG/L	.02	10. (A1)
NITROGEN TOTAL KJELDAHL	MG/L	.02	N/A
PH	DMSNLESS	N/A	6.5-8.5(A4)
PHOSPHORUS FIL REACT	MG/L	.0005	N/A
PHOSPHORUS TOTAL	MG/L	.002	.40(F2)
TOTAL SOLIDS	MG/L	1.	500. (A3)
TURBIDITY	FTU	.02	1.0 (A1)
METALS			
ALUMINUM	UG/L	.050	100. (A4)
ANTIMONY	UG/L	.050	10. (F3)
ARSENIC	UG/L	.050	50. (A1)
BARIUM	UG/L	.020	1000. (A1)
BORON	UG/L	.200	5000. (A1)
BERYLLIUM	UG/L	.010	0.20 (H)
CADMIUM	UG/L	.050	5.0 (A1)
COBALT	UG/L	.020	1000. (H)
CHROMIUM	UG/L	.100	50. (A1)
COPPER	UG/L	.100	1000. (A3)
IRON	UG/L	5.0	300. (A3)
MERCURY	UG/L	.01	1.0 (A1)
MANGANESE	UG/L	.050	50. (A3)
MOLYBDENUM	UG/L	.020	500. (H)
NICKEL	UG/L	.100	50. (F3)
LEAD	UG/L	.020	50. (A1)
SELENIUM	UG/L	.200	10. (A1)
SILVER	UG/L	.020	50. (A1)
STRONTIUM	UG/L	.100	2000. (H)
THALLIUM	UG/L	.010	13. (D4)
TITANIUM	UG/L	.100	N/A
URANIUM	UG/L	.020	20. (A2)
VANADIUM	UG/L	.020	100. (H)
ZINC	UG/L	.020	5000. (A3)
PHENOLICS			
PHENOLICS (UNFILTERED REACTIVE)	UG/L	.2	2.0 (A3)
PESTICIDES & PCB			
ALDRIN	NG/L	1.0	700. (A1)
AMETRINE	NG/L	50.	300000. (D3)
ATRAZINE	NG/L	50.	60000. (B3)
ALPHA HEXACHLOROCYCLOHEXANE (BHC)	NG/L	1.0	700. (G)
BETA HEXACHLOROCYCLOHEXANE (BHC)	NG/L	1.0	300. (G)
GAMMA HEXACHLOROCYCLOHEXANE(LINDANE)	NG/L	1.0	4000. (A1)
ALPHA CHLORDANE	NG/L	2.0	7000. (A1)
GAMMA CHLORDANE	NG/L	2.0	7000. (A1)
BLADEX	NG/L	100.	10000. (B3)
DIELDRIN	NG/L	2.0	700. (A1)
METHOXYCHLOR	NG/L	5.0	900000. (B1)
ENDOSULFAN 1 (THIODAN I)	NG/L	2.0	74000. (D4)
ENDOSULFAN 2 (THIODAN II)	NG/L	4.0	74000. (D4)
ENDRIN	NG/L	4.0	200. (A1)
ENDOSULFAN SULPHATE(THIODAN SULPHATE)	NG/L	4.0	N/A
HEPTACHLOR EPOXIDE	NG/L	1.0	3000. (A1)

SCAN/PARAMETER	UNIT	DETECTION LIMIT	GUIDELINE	
HEPTACHLOR	NG/L	1.0	3000.	(A1)
METOLACHLOR	NG/L	500.	50000.	(B3)
MIREX	NG/L	5.0	N/A	
OXYCHLORDANE	NG/L	2.0	N/A	
O,P-DDT	NG/L	5.0	30000.	(A1)
PCB	NG/L	20.0	3000.	(A2)
O,P-DDD	NG/L	5.0	N/A	
PPDDE	NG/L	1.0	30000.	(A1)
PPDDT	NG/L	5.0	30000.	(A1)
ATRATONE	NG/L	50.	N/A	
ALACHLOR	NG/L	500.	35000.	(D2)
PROMETONE	NG/L	50.	52500.	(D3)
PROPAZINE	NG/L	50.	16000.	(D2)
PROMETRYNE	NG/L	50.	1000.	(B3)
SENCOR (METRIBUZIN)	NG/L	100.	80000.	(B2)
SIMAZINE	NG/L	50.	10000.	(B3)
POLYAROMATIC HYDROCARBONS				
PHENANTHRENE	NG/L	10.0	N/A	
ANTHRACENE	NG/L	1.0	N/A	
FLUORANTHENE	NG/L	20.0	42000.	(D4)
PYRENE	NG/L	20.0	N/A	
BENZO(A)ANTHRACENE	NG/L	20.0	N/A	
CHRYSENE	NG/L	50.0	N/A	
DIMETHYL BENZO(A)ANTHRACENE	NG/L	5.0	N/A	
BENZO(E)PYRENE	NG/L	50.0	N/A	
BENZO(B)FLUORANTHENE	NG/L	10.0	N/A	
PERYLENE	NG/L	10.0	N/A	
BENZO(K)FLUORANTHENE	NG/L	1.0	N/A	
BENZO(A)PYRENE	NG/L	5.0	10.	(B1)
BENZO(G,H,I)PERYLENE	NG/L	20.0	N/A	
DIBENZO(A,H)ANTHRACENE	NG/L	10.0	N/A	
INDENO(1,2,3-C,D)PYRENE	NG/L	20.0	N/A	
BENZO(B)CHRYSENE	NG/L	2.0	N/A	
CORONENE	NG/L	10.0	N/A	
SPECIFIC PESTICIDES				
TOXAPHENE	NG/L	N/A	5000.	(A1)
2,4,5-TRICHLOROBUTYRIC ACID	NG/L	50.	200000.	(B4)
(2,4,5-T)				
2,4-DICHLOROBUTYRIC ACID (2,4-D)	NG/L	100.	100000.	(A1)
2,4-DICHLORORPHENOXYBUTYRIC ACID	NG/L	200.	18000.	(B3)
2,4-D PROPIONIC ACID	NG/L	100.	N/A	
DICAMBA	NG/L	100.	120000.	(B1)
PICLORAM	NG/L	100.	190000.	(B3)
SILVEX (2,4,5-TP)	NG/L	50.	10000.	(A1)
DIAZINON	NG/L	20.	20000.	(B1)
DICHLOROVOS	NG/L	20.	N/A	
DURSBAN	NG/L	20.	N/A	
ETHION	NG/L	20.	35000.	(G)
GUTHION(AZINPHOSMETHYL)	NG/L	N/A	20000.	(B1)
MALATHION	NG/L	20.	190000.	(B1)
MEVINPHOS	NG/L	20.	N/A	
METHYL PARATHION	NG/L	50.	7000.	(A1)
METHYLTRITHION	NG/L	20.	N/A	
PARATHION	NG/L	20.	50000.	(B1)

SCAN/PARAMETER	UNIT	DETECTION LIMIT	GUIDELINE
PHORATE (THIMET)	NG/L	20.	2000. (B3)
RELDAN	NG/L	20.	N/A
RONNEL	NG/L	20.	N/A
AMINOCARB	NG/L	N/A	N/A
BENONYL	NG/L	N/A	N/A
BUX (METALKAMATE)	NG/L	2000.	N/A
CARBOFURAN	NG/L	2000.	90000. (B1)
CICP (CHLORPROPHAM)	NG/L	2000.	350000. (G)
DIALLATE	NG/L	2000.	30000. (H)
EPTAM	NG/L	2000.	N/A
IPC	NG/L	2000.	N/A
PROPOXUR (BAYGON)	NG/L	2000.	90000. (G)
SEVIN (CARBARYL)	NG/L	200.	90000. (B1)
SUTAN (BUTYLATE)	NG/L	2000.	245000. (D3)
VOLATILES			
BENZENE	UG/L	.050	5.0 (B1)
TOLUENE	UG/L	.050	24.0 (B4)
ETHYLBENZENE	UG/L	.050	2.4 (B4)
PARA-XYLENE	UG/L	.100	300. (B4)
META-XYLENE	UG/L	.100	300. (B4)
ORTHO-XYLENE	UG/L	.050	300. (B4)
1,1-DICHLOROETHYLENE	UG/L	.100	7.0 (D1)
ETHLYENE DIBROMIDE	UG/L	.05	.05 G)
METHYLENE CHLORIDE	UG/L	.500	50. (B1)
TRANS-1,2-DICHLOROETHYLENE	UG/L	.100	70. (D5)
1,1-DICHLOROETHANE	UG/L	.100	N/A
CHLOROFORM	UG/L	.100	350. (A1+)
1,1,1-TRICHLOROETHANE	UG/L	.020	200. (D1)
1,2-DICHLOROETHANE	UG/L	.050	5.0 (D1)
CARBON TETRACHLORIDE	UG/L	.200	5.0 (B1)
1,2-DICHLOROPROPANE	UG/L	.050	6.0 (D5)
TRICHLOROETHYLENE	UG/L	.100	50. (B1)
DICHLOROBROMOMETHANE	UG/L	.050	350. (A1+)
1,1,2-TRICHLOROETHANE	UG/L	.050	.60(D4)
CHLORODIBROMOMETHANE	UG/L	.100	350. (A1+)
TETRACHLOROETHYLENE	UG/L	.050	10.0 (C2)
BROMOFORM	UG/L	.200	350. (A1+)
1,1,2,2-TETRACHLOROETHANE	UG/L	.050	0.17(D4)
CHLOROBENZENE	UG/L	.100	60. (D5)
1,4-DICHLOROBENZENE	UG/L	.100	1.0 (B4)
1,3-DICHLOROBENZENE	UG/L	.100	130. (G)
1,2-DICHLOROBENZENE	UG/L	.050	3.0 (B4)
TRIFLUOROCHLOROTOLUENE	UG/L	.100	N/A
TOTAL TRIHALOMETHANES	UG/L	.500	350. (A1)
STYRENE	UG/L	.05	140. (D5)